Vol XLIII. No. 4

O·A·C REVIEW

ONTARIO AGRICULTURAL COLLEGE

NOVEMBER, 1930

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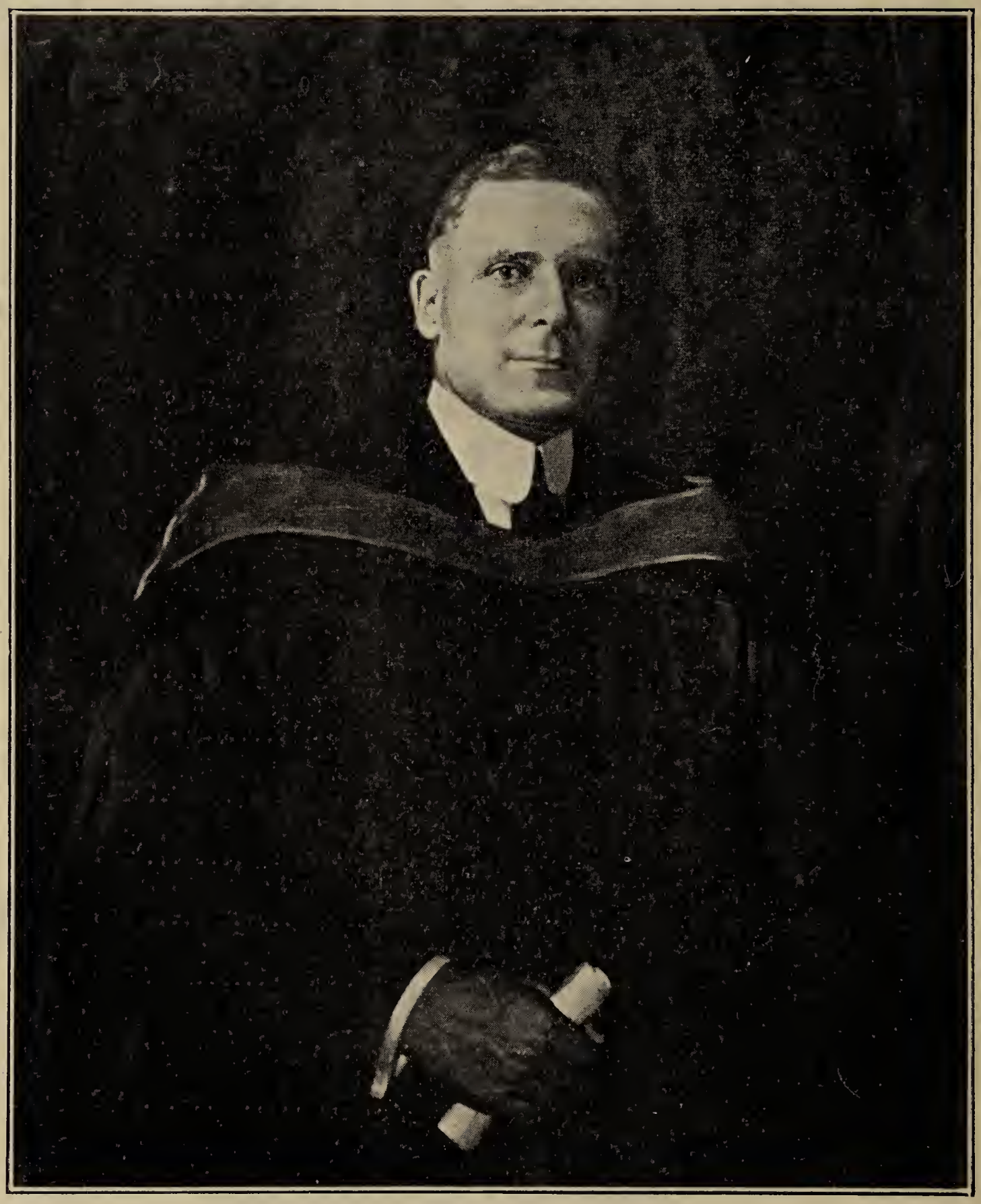

THE PICTURE OF WADE TOOLE, PRESENTED TO THE COLLEGE THIS SUMMER

THE O.A.C. REVIEW

"THE PROFESSION WHICH I HAVE EMBRACED REQUIRES A KNOWLEDGE OF EVERYTHING"

VOL. XLIII. GUELPH, ONTARIO, NOVEMBER, 1930 No. 4

Soy Bean Investigations

By Prof. W. J. Squirrell

THE interest in the soy bean crop continues. More letters were received by the Department of Field Husbandry in 1930 asking information on soy beans than in any previous year. The crop has been grown in the experimental plots at the Ontario Agricultural College since 1914. In the paragraphs following will be found the results of some of the latest investigations with this crop.

Varieties

In the average results of the last five years, during which time there was a total of thirty-five varieties and strains of varieties of soy beans under test, the O.A.C. No. 211 variety produced an average of 25.73 bushels of grain per acre. This yield was only surpassed by one other variety included in the test. In the average of another experiment conducted for a period of six years in which twenty-one varieties of soy beans were compared in duplicate for forage production, the O.A.C. No. 211 produced an average of 10.16 tons of green fodder per acre. This was the largest yield of any one of the varieties under test. The O.A.C. No. 211 soy bean is the only variety grown in Canada eligible for registration by the Canadian Seed Growers' Association.

Dates of Seeding

In an experiment conducted during the period 1925-1929, inclusive, when three varieties of soy beans were sown in duplicate on five different dates with intervals of one week between each date, making a total of thirty tests for each date of seeding, it was found that soy beans produced the largest yield of grain per acre when sown on the average date of April the 28th. Some of the failures which farmers have experienced in growing soy beans in Ontario can be attributed to the crop being sown too late in the season. The soy bean crop is quite different from field beans and will stand colder weather than this crop without injury. Farmers in Central and Western Ontario, who grow this crop, will be well advised to sow it early in May.

Rates of Seeding

An experiment was started in rates of seeding in 1925, and finished in 1929, in which two varieties were tested in triplicate for grain production. The rates used in this experiment were one-half, one, one and one-half, two, and two and one-half bushels of seed per acre. The results, after deducting the seed sown, indicated that one bushel of seed per acre produced the highest yield of the different rates of seeding and when sown with every tube of the grain drill. The O.A.C. No. 211 and Early Brown varieties were used in this experiment. These two

A FIELD OF O.A.C. No. 211 SOY BEANS

varieties possess seed of medium size. Varieties producing seed of smaller size would require to be sown at a less rate per acre. In most cases three-quarters of a bushel of seed per acre would be sufficient to sow these small seeded varieties. Larger seed varieties, than the two varieties mentioned here, would require to be sown at the rate of about one and one-quarter bushels of seed per acre.

Methods of Seeding

In this test two varieties were used in a study of methods of seeding. Average results for the last five years show that the highest yield of grain per acre was obtained when seed was sown in drills one link apart. One link is approximately the distance between the tubes in the grain drill. The second largest yield of grain was obtained when seed was sown in rows twenty-seven inches apart. Fifty tests were made in obtaining the above information on methods of seeding.

In Mixtures

There is a limited number of crops in Ontario which can be grown and are desirable for annual fodder purposes. In order, if possible, to improve this situation tests have been conducted in each of the last five years in which soy beans were grown in combination with a number of other annual fodder plants. This experiment, which was conducted in duplicate, required a total of sixteen plots each year. The table below gives the average yield of green and dried fodder for 1930 and for the average of the last five year period:

	Quantity of Seed per Acre (lbs.)	Per Cent of Crop in Mixture Harvested	Yield Per Acre (Tons)			
			Green Fodder		*Dried Fodder	
			1930	Ave. 5 years	1930	Ave. 5 years
Soy Beans	60	100	13.25	10.83	5.36	3.71
Soy Beans	60	46				
Early Amber Sugar Sorghum	32	54	19.90	17.91	8.31	6.99
Soy Beans	60	54				
White Kaffir Corn	32	46	18.88	15.86	7.92	6.12
Soy Beans	60	29				
Japanese Panicle Millet	32	71	16.15	13.58	6.86	5.12
Soy Beans	60	28				
Japanese Barnyard Millet	32	72	14.80	12.93	6.30	4.83
Soy Beans	60	28				
Sudan Grass	32	72	12.70	12.19	6.36	4.55
Soy Beans	60	58				
Teff Grass	32	42	12.45	10.72	5.25	4.05
Soy Beans	60	18				
Hungarian Millet	32	82	10.00	8.73	4.06	3.39

* Dried Fodder Plants ceased to lose weight in the field.

The mixture producing the largest yields per acre of both green and dried fodder was one made up of sixty pounds of soy beans and thirty-two pounds of Early Amber Sugar Sorghum. An analysis of the crop grown from this mixture showed almost equal quantities of the two crops produced. Early Amber Sugar Sorghum sown in the mixture at the rate of thirty-two pounds per acre produced much finer material than would have been the case had this crop been grown alone. The mixture of Soy Beans and Hungarian Millet produced the smallest yield of any of the mixtures included in the test with a yield of both green and dried fodder approximately one-half of that obtained as a result of sowing the O. A. C. No. 211 variety of Soy Beans at the rate of sixty pounds per acre along with Early Amber Sugar Sorghum sown at the rate of thirty-two pounds per acre. It will be noted that all the mixtures included in this table, with the exception of Soy Beans and Hungarian Millet, produced an increased yield per acre over sowing Soy beans alone. The palatability of each of these mixtures was high and all were readily eaten by stock.

Soy Bean Demonstrations

Soy beans have been grown suc-

(Please turn to page 128)

At the National Dairy Show

H. W. Goble Wins Scholarship, High Man in Holsteins

A College Dairy Team again entered the competition at the National Dairy Show, which is now permanently held at St. Louis, Mo. St. Louis is some one thousand miles from Guelph and it took a full day to get there by train. Two of these twenty-four hours, however, were spent in Chicago, where the team walked the streets in search of some excitement but failed to see any holdups or serious accidents. Arriving in St. Louis at 8.30 Sunday morning, gave plenty of time to prepare for Monday, the fatal day when twelve classes of dairy cattle, consisting of four different breeds, worried the heads of the seventy-five contestants of the competition.

However, after the competition was over, there was nothing to do but wait for the results and in the meantime to see St. Louis and the Dairy Show of 1930. The show is certainly worthy of the large coliseum, and other buiildings and equipment used for that purpose, many classes having more that fifty entries of the best of show cattle. The majority of the stock were Jerseys and Holsteins with a large number of Guernseys and about equal numbers of Ayrshires and Brown Swiss, the Brown Swiss having made rapid increases in certain states in the last few years.

Outside of the show, an interesting feature of the week was a free trip to the Purina Experimntal Farms near St. Louis, where, although no information was given as to the feeds used, there was a good opportunity of observing experimental methods in feeding. This was particularly interesting on account of the scarcity of this work being done on any extensive scale elsewhere. Experimental work is being carried on with dairy and beef cattle, hogs, poultry, rabbits, dogs, and foxes; the stock being of the average farm type and kept under modern farm conditions.

The trip would not have been complete without paying a visit to some of the special attractions of the city as the zoo, the Show Botanical gardens, which are considered the best in America, the Fox Theatre, one of America's largest, another theatre that gives one of these 100% stage features and Olive St., a street well known to some members of the team. At the end of the week, the team returned to the College with eleventh place honours in the competition and a $500 scholarship for high man in Holsteins.

The rest of the year met the team at Galt and gave them a rousing college reception. The team was made up of H. W. Goble, E. A. Innis, H. C. Hartley and G. M. Engle, spare. It may be of interest to note that the three men judging come from homes within five miles of each other near Woodstock, Ontario.

The Rose Society of Ontario

By P. B. Sanders,
Dept. of Horticulture, O.A.C.

TO satisfy those who might inquire as to the connection between the Rose Society of Ontario and a publication issued for the benefit of graduates and under-graduates of the Ontario Agricultural College, let it be said that this Society is co-operating most fully and intimately with the College and the Provincial Department of Agriculture through our Department of Horticulture. As an example of the interest of Agricultural authorities in the organization, consider the fact that the ex-Minister of Agriculture, J. S. Martin, and our own Dr. G. I. Christie, are listed among its patrons; and the knowledge that Professor A. H. MacLennan is the Honorary Vice-President and Professor A. H. Tomlinson a Vice-President, should be sufficient guarantee that the Horticulture Department approves of, and works with, the Rose Society.

This Society, first formed in Toronto in 1912, exists solely to help flower-lovers to grow roses. The Secretary receives a small monetary recompense for arduous labours, but all other officers do the work voluntarily and without pay of any description save the satisfaction that results from "seeing a good thing through". There is no doubt that all our leading rose growers—both amateur and professional—may be actively identified with the Society; and that there was, and is, need for such a body is amply demonstrated in its rapid growth. At present there are more than twelve hundred members, a per capita membership, larger than that of any other Society with interests directed solely to one type of flower.

Membership in the Rose Society of Ontario costs the purely nominal annual sum of one dollar, and to satisfy the thought so prevalent in the minds and speech of many, let us tell you what you "get for your money"!

Each member receives a copy of the Annual, a year book of some one hundred and twenty pages, literally filled with information related to roses and rose growing. The Editor of this book, Mr. A. J. Webster, is a business man of wide experience, an amateur rose grower of the keenest type, and one of the "best read rose men" on the Continent. Besides this book, each member receives six seasonal "Bulletins" (actually, they are four page leaflets) carrying instructions as to the care of garden roses at different times of the year. These little pamphlets are edited by the writer, and are contributed to by the most successful growers in the Province.

Then again, each member receives a ticket to the Annual Rose Show (the general admission price to this show is fifty cents!) now held annually at the Royal York Hotel, Toronto. This Exhibition, in 1930, covered some fourteen thousand square feet, and we are reliably informed that it was the largest rose show ever staged.

Members receive, too, invitations to outings at the larger commercial rose-growing establishments; to garden parties at the more important private rose gardens; and to lectures on the rose which are generally held in Toronto during the winter months.

A Committee of Consulting Rosarians, consisting of six of the leading men and women in Ontaro's rose world, has been appointed; and any member's question relating to rose culture will be answered by members of the Commitee free of charge.

As if all this were not enough to satisfy the most exacting dollar! a complete list of members is published in each issue of the Annual, so that members are automatically introduced to other rose growers in their district—thus promoting friendships and furthering interest in the rose.

In case a charge may be laid to the effect that the Society serves the amateur only, it might be observed that most of our commercial firms selling rosebushes are members of the organization; and, further, that for the past three years the Society's representative to the Plant Registration Committee of the Canadian Horticultural Council (who happens to be the author) has assisted in securing for one or another of these commercial members, the medal awarded annually by the Council for the Canadian Florists' and Gardeners' Association for the best florist's production of the previous year.

The Society works, too, with many of the Dominion's Horticultural Societies, and in the following manner: Any Horticultural Society may become affiliated with the Rose Society through the annual payment of the sum of five dollars. On the other hand, if any Horticultural Society has ten of its members as members—in good standing—of the Rose Society, affiliation costs nothing. Affiliated societies receive all publications of the Rose Society, and a medal for competition at their annual rose show. In an effort to be of still further assistance to these affiliated societies, one of the finest collections of rose slides extant has been compiled and, through the co-operation of the Lantern Slide Department of the Provincial Motion Picture Bureau, these will be available to affiliated societies during the coming winter together with a mimeographed lecture, at no expense other than express charges on the slides.

To enlarge upon, or exemplify, the statement previously made to the effect that the Rose Society of Ontario co-operates fully with the Department of Horticulture at our own institution, let me point out that a handsome cup, and two medals, have been donated for competition among the members of our Horticulture Club. A replica of the cup and the two medals will be awarded annually to the members of the Club who have, during the fall and winter season, scored the greatest totals in the various rose judging classes sponsored by the Horticultural Department. This generous donation is only in keeping with the Rose Society's purpose of making more, and more, people interested in the "Queen of Flowers".

At the present time well laid plans are under way through which the Rose Society and the College will co-operate more closely than ever before. Rose testing gardens throughout the world are numerous, but it is expected to establish at the O.A.C. a form of test garden unique in itself; in the spring of to the world markets in 1930, and those 1931 rose bushes of varieties introduced to be introduced in 1931, will be planted on College property. This planting will be but the start of an extensive garden in which only the very newest varieties originated by the world's leading rose hybridists will be thoroughly tested as to their reactions to Ontario

weather conditions. The idea originated with the Rose Society and our Department of Horticulture was approached in the matter—which was received kindly by the faculty as a whole. A special committee appointed by the Society communicated with commercial firms throughout the world, and promises of six bushes each of more than one hundred new varieties have been received. Each variety will be grown and observed over a three-year period, and it is expected that, in a few years' time, more than three thousand plants will be under test. Rose variety testing, of course, has been under way here for some years, but it was not always found easy to secure new varieties during the year of their introductions; and certainly it was not found possible to purchase them before they were introduced. It is expected, then, that a most important advance in rose knowledge will have been made before the close of the 1931 season, and that the Department of Horticulture will become the mecca for rose lovers throughout this Continent. Visitors from afar are increasing numerically yearly, but it is confidently expected that their numbers will increase rapidly from year to year as the fact becomes known that the very newest varieties are being tested here.

The Rose Society of Ontario will co-operate still further with the Department of Horticulture in assisting in disseminating information as to the results of these tests, and it is confidently expected that these results will be published yearly in the Society's Rose Annual.

As will be realized, members of the Horticulture Department consider it a great pleasure to work with enthusiasts possessing constructive ideas for the gathering of information relative to any Horticultural crop; and other Societies desiring similar assistance and co-operation to that offered the Rose Society of Ontario may have it for the asking.

The owner of the place was amazed to find one of his new workmen walking along one hot day all bundled up in clothing.

"Why on earth are you wearing so many clothes, Pat?"

"Oi hov to paint this fince, and the label on the can says, 'To obtain the best results put on three coats.'"

MacIntosh—"Did ye enjoy yersel' in your visit to America?"

MacGrabb—"Enjoy masel'? I should say I did. Every time I went into ane o' tvae restaurants I found money under ma plate."

"Say it with raps," says the Literary Digest of the following ad. from an Ohio paper:

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Ask Those Whom We Have Served.

"What kind of a sandwich is that?"

"I think it's cheese plated."—Life.

Cashier—"No, sir; no checks. I wouldn't cash a check for my own brother."

Client—"Well, of course, you know your family better than I do."

Dairy Products Team Fourth at National

D. B. Goodwillie Second in Contest, Wins $750 Scholarship

AFTER a few days of strenuous training in the judging of Dairy Products, at the Dairy Building and at the Provincial Butter Grading Station in Toronto, we left on Friday morning, October 17th, for Cleveland, where the National Contest in the judging of Dairy Products was to be held.

The party consisted of the team, D. B. Goodwillie, W. G. Loveless and K. C. Reynolds, with J C. Crosbie as spare; our coach, Mr. W. H. Sproule, and Mr. J. L. Baker, of Belleville.

We arrived in Cleveland Friday evening without mishap and had until Saturday noon to rest up for the contest.

The contest was held on Saturday afternoon in one corner of the lower floor of the Public Auditorium, where the Dairy Industries Exposition was to be held the following week. Mr. William White, of the U.S. Bureau of Dairy Industry, Washington, D.C., who supervised the Eastern States competition, also acted as "referee" here, and the contest was carried out in much the same manner as the one at Springfield.

Eighteen teams had entered the contest but one, of Georgia, failed to show up. The teams were from all over the United States. There was a team from California, one from Oregon, one from Kansas, one from Illinois, one from Mississippi, one from Massachusetts, one from Pennsylvania, etc. We were very proud to make up the first team from the O.A.C. that had ever entered this competition.

D. B. GOODWILLIE
Of Hockey fame, also stars in judging Dairy Products. Here he is with his winnings.
(Courtesy of Canadian Dairy Journal)

We were lined up in teams, each team consisting of three men, and were assigned numbers that were to be our numbers throughout the contest Then we were divided up into four groups, each group consisting of not more than one man from any one team. One group started judging milk, another ice cream, another butter, and another cheese. Ten minutes were given to look over three scored samples of the product and then forty-five minutes were

(Please turn to Page 122)

"A Beekeeping Adventure in Turkey"

By H. B. Disbrowe

DURING the years 1924-27 I was in charge of Agricultural instruction at an American Institution, "The International College", at Smyrna, Turkey. During those three years I was able to study beekeeping as carried out in that interesting country and obtained a great deal of pleasure, if little profit, from doing so.

It was on a mountain trip in the vicinity of Smyrna that I first came in contact with a Turkish beeman. Our party was descending the pine clad slopes of the Lamandagh, one of the highest peaks in the Smyrna range Emerging from a thicket of scrub pine we found ourselves on a small plateau-like area, on one side of which a gurgling spring poured itself into a roughly constructed stone basin. In our parched state this was a welcome sight indeed and divesting ourselves of heavy packs we gathered around the basin where we laved our arms and with cupped hands conveyed the cool water to our lips. Refreshed, we lolled on the warm stones to talk and rest awhile before proceeding on our way. Almost immediately my attention was taken by the sight of hundreds of honey bees gathering water from the spring. As a practical beekeeper my interest was aroused for I knew that there must be a fair sized apiary in the vicinity and resolved to have a look at it. With a word to my companions to await my return I plunged into the thicket in the direction from which the bees were flying.

After a short walk of perhaps ten minutes duration I was halted by two savage looking dogs, that came barking furiously at me through the underbrush. Being wise in the ways of the countryside I did not risk annihilation by approaching closer but stood shouting for their master whom I knew must be nearby. In response to my shouts a kindly looking old Turk made his appearance. He quieted the growling dogs and courteously invited me to follow him to his hut. I explained to him my interest in bees which seemed to please him very much. His habitation proved to be a small, one roomed hut with mud walls and sod roof. A lady of generous proportions busily engaged in grinding meal, hastily veiled herself and scuttled through the doorway at our approach, but two grinning, grimy youngsters of undetermined sex stood their ground and stared at me in childish wonder.

A short distance from the hut was the apiary which at first glance I took to be a pile of logs. The individual hives somewhat resembled the log hives of this country, with the exception, however, that they were of wicker work construction, plastered over with cow dung. The ends were closed with roughly cut boards sealed in with the same material. The hives were all piled together in the manner of cord-wood. I evidenced a curiosity to see and taste his product so with obliging readiness the old fellow tore the end from the nearest hive and in spite of the fact that his rough handling had aroused the bees, plunged in his arm and removed a fine comb of honey that was entirely free of brood. I suggested that the use of smoke would facilitate the handling of his bees but he

replied that he only used smoke when they were "choke fena", (very bad). He displayed the open pan in which he burned dry cow dung, explaining that the fumes from this material gave him complete mastery of the bees.

I enquired of Abdullah effendi, for this he informed me was his name, from what source the bees were obtaining the nectar which was coming in freely. He stated that they were getting it from the pine trees and went on to explain that because of a "hastalik" (sickness), they always exuded nectar at this time of the year. I examined the trees and found them to be liberally spattered with a sticky sweet fluid that hung in small globules on the needles. Whether these globules were actually exuded from the needles or were the excretions of plant lice I was never able to ascertain. The honey, however, did not possess the tart taste commonly associated with honey dew.

By this time nearly half an hour had passed, so thinking that my companions might be becoming anxious as to my whereabouts I prepared to take my leave of friend Abdullah. He, however, insisted that I drink the customary cup of coffee with him before parting and knowing that it would be considered impolite to refuse, I acceded to his request. I was given the seat of honour, a rickety straw bottomed chair, while Abdullah effendi seated himself on the door ledge. His wife recovered from her timidity but carefully veiled, served us in turn with tiny cups of delicious Turkish coffee. Dawdling over our cups in the Turkish manner we continued to talk bees. He told me how as a boy he had obtained his first swarm from a beekeeper in his native village in exchange for a young kid which he had found wandering unclaimed on the mountain side. From this original swarm he had built up his apiary to its present number of nearly two hundred colonies. His profits were small, but, as he explained, sufficient to purchase bread for himself and family, and what more could one ask of Allah. The "bal" (honey) which he obtained was sold in the bazaars of Smyrna and he showed me how the combs of honey were cut and packed in tin cans about the size of our five pound pails. A few dead bees were always crushed in with the honey just to prove that the article was genuine. Similarly an occasional bit of brood helped to raise the weight and accomplish the same purpose. The covers were soldered on the cans to keep out ants and to protect the contents from dust and dirt. His bees worked chiefly on the pines but also secured nectar from the blossoms of the wild almond and various small flowers that appear on the mountain side in the early spring. In the cultivated valleys where he sometimes moved his bees they worked on the blossoms of the orange, almond, locust trees, and various other cultivated fruits and plants.

During this time I had been so engrossed in the mysteries of Turkish beekeeping that all thoughts of my waiting companions had nearly left me. At this point, however, a concerted shout from the direction of the spring warned me that it was time to leave. I had determined, however, that I must have some bees of my own and as Abdullah effendi was willing to do business I hastily concluded a bargain with him for five colonies to be delivered at the College the following week. Business concluded salaams were exchanged and I rejoined my somewhat impatent companions at the spring.

Packs were shouldered and we proceeded on our homeward journey.

One evening the following week I was enjoying a quiet smoke outside my quarters when friend Abdullah appeared. He was leading a diminutive donkey on whose back were loaded my five colonies of bees. The hives were swathed in burlap and as it was a warm evening they were humming away in fine style in an effort to keep the air circulating. We quickly unloaded them on the stand which I had prepared. I paid the purchase price of two dollars per colony and Abdullah went on his way rejoicing over this unexpected bonanza.

I immediately ordered hives, smoker, comb foundation, etc., from America. In due course these arrived and I transferrred my colonies to the modern equipment and awaited results. These, however, were disappointing and after a year or two I was forced to conclude that beekeeping, in that part of Turkey at least, was not a profitable undertaking. The honey procured was of fair quality but the amount was small and apiary pests were many. The bees themselves resemble the Italians except that they are duller in colour and the bands are not so distinct. I found them easy enough to handle during a honey flow but when nectar is scarce they were viciousness itself. They are infected by a species of louse and nearly every bee in a colony bears one or more of these parasites on its thorax. Another pest that I learned to cordially dislike was a species of giant wasp which carried the bees off bodily from the hive. These increased to great numbers as the season progressed and colonies were often completely decimated.

On the whole I obtained a great deal of pleasure if little profit from my Turkish beekeeping activities At any rate I provided a lot of free entertainment in a land where it is scarce, for the peasantry never ceased to wonder and admire the way in which I was able to handle bees through the use of the smoker and moveable frames.

First Lawyer—"You are a cheat and a swindler!"

Second Lawyer—"You are a liar and blackguard!"

The Court (softly)—"Come, come, gentlemen, let us get to the disputed points of the case."

Desperado—"Halt! If you move, you're dead."

Student—"My man, you should be more careful of your English. If I should move, it would be a positive sign that I was alive."—College Humor.

A FUNNY CHAP

A man took a hard tumble and his companion helped him up. "How did you happen to fall, Tom?" he asked.

Tom answered: "Notwithstanding!"

The other was still laughing when he reached home, and his wife asked him the cause of his merriment.

"Tom's a funny chap," he explained. "When he slipped on the pavement comng home I asked him how it happened, and, quick as a flash, he answered: 'Nevertheless!"

"You don't see it now," he added, "but you will when you think it over."

Names and Addresses of First Year Students by Counties

gree Class

OUTSIDE OF ONTARIO—

H. C. Aitken, Box 518, Kelowna, British Columbia.

H. Denis-Nathan, "The Sheiling", Upper Milner Rd., Tamboess Kloff, Cape Town, South Africa.

T. Nishizawa, Asakawamura, Kaminochi, Nagana-ken, Japan.

E. H. Saunders, 56 Orlebar St., Charlottetown, P.E.I.

BRUCE COUNTY—

Mabel W. Faust, Walkerton, Ont.

R. H. Rosewell, Teeswater, Ont.

J. E. Sparling, Kincardine, Ont.

CARLETON COUNTY—

H. Y. Brault, 586 St. Patrick St., Ottawa, Ont.

G. B. Henry, City View, Ont.

G. E. Rose, 247 Powell Ave., Ottawa, Cnt.

DUNDAS COUNTY—

W. F. Thompson, South Mountain, Cnt.

DURHAM COUNTY—

R. H. Wood, Brookdale Nurseries, Bowmanville, Ont.

ELGIN COUNTY—

H. S. Graham, 74 St. George St., St. Thomas, Ont.

FRONTENAC COUNTY—

G. C. Young, Sydenham, Ont.

GREY COUNTY—

W. B. Harvey, Thornbury, Ont.

HALDIMAND COUNTY—

E. A. Smith, Dunnville, Ont.

HALTON COUNTY—

W. McNiven, R.R. No. 1, Freeman, Ont.

B. P. Teasdale, R.R. No. 2, Freeman, Ont.

HURON COUNTY—

H. J. Hunter, R.R. No. 3,, Exeter, Ont.

J. R. Turnbull, R.R No. 2, Brussels, Ont.

LAMBTON COUNTY—

R. E. Heal, R.R. No. 3, Petrolia, Ont.

A. D. Hossie, Box 159, R.R. No. 1, Corunna, Ont.

J. M. Powell, Inwood, Ont.

LEEDS COUNTY—

H. R. Avery, R.R. No. 1,, Athens, Ont.

LINCOLN COUNTY—

W. R. Phillips, Beamsville, Ont.

L. K. Shrum, Smithville, Ont.

NORFOLK COUNTY—

Jane E. Walker, Port Rowan, Ont.

NORTHUMBERLAND COUNTY—

A. M. McIntyre, Albert St., Cobourg, Ont.

G. W. McKague, Castleton, Ont.

ONTARIO COUNTY—

W. I. G. Alsop, Box 127, Beaverton, Ont.

OXFORD COUNTY—

E. S. Moore, Otterville, Ont.

F. A. Stock, R.R. No. 1, Tavistock, Ont.

PEEL COUNTY—

D. P. Watson, R.R. No. 1, Port Credit, Ont.

PETERBOROUGH COUNTY—

A. F. Gardner, R.R. No. 1, Norwood, Cnt.

H. A. Horton, R.R. No. 3, Peterborough, Ont.

A. N. Matchett, Fraserville, ,Ont.

F. A. Stinson, R.R. No. 1, Norwood, Ont.

RENFREW COUNTY—

D. A. Stewart, R.R. No. 5, Renfrew, Ont.

RUSSELL COUNTY—

E. H. Carscadden, Russell, Ont.

W. R. Wilson, Kenmore, Ont.

SIMCOE COUNTY—

D. I. Martin, 67 Nottawasaga St., Orillia, Ont.

R. J. Rae, Iroquoisvale, Penetanguishene, Ont.

J. W. Sinclair, Allandale, Ont.

WATERLOO COUNTY—

R. A. Cowan, Ayr, Ont.

L. G. H. Herman, R.R. No. 3, New Hamburg, Ont.

J. Esther M. Sheldon, Cedar St., Galt, Ont.

WELLAND COUNTY—

J. R. Brown, 444 Simcoe St., Niagara Falls, Ont.

C. J. Monroe, R.R. No. 3, Niagara Falls, Ont.

J. R. Scott, 1459 Portage Rd., Niagara Falls, Ont.

WENTWORTH COUNTY—

W. T. Ewen, R.R. No. 1, Hamilton, Ont.

P. T. W. Heming, "Green Gables". Ancaster, Ont.

W. H. Langton, Waterdown, Ont.

R. R. Long, Aldershot, Ont.

E. T. Parkin, 92 Eastbourne Ave., Hamilton, Ont.

G. C. Trenaman, 99 Blake St., Hamilton, Ont.

WELLINGTON COUNTY—

A. P. Bell, 55 London Rd., Guelph, Ont.

Eleanor A. Caesar, 26 Elora St., Guelph.

F. Graesser, 219 King St. W., Guelph, Ont.

E. B. Leadlay, 27 Howitt St., Guelph, Ont.

K. G. McPhee, R.R. No. 6, Guelph, Ont.

D. C. Reid, Drayton, Ont.

J. C. Sullivan, 72 Arnold St., Guelph, Ont.

YORK COUNTY—

C. M. Brodie, R.R. No. 2, Gormley Ont.

F. W. Bunt, 33 Barton, Ave., Toronto, Ont.

H. C. Dyme, 657 Queen St. W., Toronto, Ont.

E. E. Fitzgibbon, Scarboro Jct.,, Ont.

T. E. L. George, 164 North Beaconsfield Ave., Toronto.

C. T. S. Gillespie, 377 Balliol St., Toronto, Ont.

F. R. Perkins, R.R. No. 2, Garmley, Ont.

L. A. Rogul, 1436 Queen St. W., Toronto, Ont.

J. J. Tofani, West Hill, Ont.

W. G. Wallis, R.R. No. 3, Weston, Ont.

ASSOCIATE CLASSES

OUTSIDE ONTARIO—

B. R. Beauchamp, Ebley Court, Stroud, Gloucestershire, England.

L. Butler, 12 Ivy Lane, Finedon. Northants, England.

F. H. S. Newbould, C-o Mr. A. B. Whall, "St. Helens", Horeman Road, E. Sussex, England.

P. G. Newell, Nags, Head Lane, Great Missenden, Bucks, England.

S. F. Simon, Market St., St. John's, Antigua, B.W.I.

H. E. Stone, 111 High St., Reading, Mass., U.S.A.

W. T. R. Van Diepan, Banes, Oriente, Cuba.

A. Kinross, 9 Elmfield Rd., Monkton, Nr. Farrow-on-Tyne, England.

ALGOMA COUNTY—
L. F. Tuckett, Bar River, Ont.
BRUCE COUNTY—
H. D. Anderson, R.R. No. 7, Lucknow, Ont.
P. S. MacDougall, C-o R. MacDougall, R.R. No. 5, Lucknow, Ont.
J. L. W. Webb, R.R. No. 1, Lucknow, Ont.
CARLETON COUNTY—
R. Leroux, R.R. No. 1, Greenfield, Ont.
DUFFERIN COUNTY—
L. W. Irvine, Grand Valley, Ont.
H. M. Taylor, Grand Valley, Ont.
DURHAM COUNTY—
J. Lightburne, Port Hope, Ont.
W. W. Sherwin, Orono, Ont.
ELGIN COUNTY—
N. A. Folland, 12 Alma St., St Thomas, Ont.
G. L. Martyn, R.R. No. 4, St. Thomas, Ont.
G. W. Mills, 30 Wilson Ave., St. Thomas, Ont.
J. F. McNiven, R.R. No. 1, Rodney, Ont.
H. L. Paterson, Rodney, Ont.
C. E. Smith, Sparta, Ont.
C. A. Young, R.R. No. 2, St. Thomas, Ont.
ESSEX COUNTY—
L. W. Barnard, Leamington, Ont.
N. K. Maynard, Leamington, Ont.
B. C. McLean, Harrow, Ont.
L. Tisdelle, Stoney Point, Ont.
FRONTENAC COUNTY—
R. J. Elkington, Plevna, Ont.
HALDIMAND COUNTY—
A. E. Harvey, R.R. No. 1, Hagersville, Ont.
T. G. Phillips, Box 85, Dunnville, Ont.
HALTON COUNTY—
A. G. Hunter, R.R. No. 1, Freeman, Ont.
O. W. Sinclair, R.R. No. 1, Freeman, Ont.
HURON COUNTY—
H. D. Scotchmer, Bayfield, Ont.
W. T. Woods, R.R. No. 2, Lucknow, Ont.
LAMBTON COUNTY—
G. Murray, R.R. No. 4, Dresden, Ont.
G. M. O'Neill, Watford, Ont.
LEEDS COUNTY—
I. B. Young, Athens, Ont.
LINCOLN COUNTY—
S. P. Fra, Jordon, Ont.
MIDDLESEX COUNTY—
T. A. Douglas, Strathroy, Ont.
J. S. Murby, Kerrwood, Ont.
M. B. Waugh, Thorndale, Ont.
NORFOLK COUNTY—
A. G. Misener, R.R. No. 3, Waterford, Ont.
J. W. McInally, 32 Sydenham St., Simcoe, Ont.
NORTHUMBERLAND COUNTY—
A. H. Immel, Grafton, Ont.
OXFORD COUNTY—
O. R. Irvine, Grand Valley, Ont.
W. C. Marshall, R.R. No. 6, Woodstock, Ont.
M. R. Pearson, R.R. No. 7, Woodstock, Ont.
PARRY SOUND COUNTY—
J. G. Jarrison, Parry Sound, Ont.
W. E. Pink, Burk's Falls, Ont.
PEEL COUNTY—
J. N. See, Malton, Ont.
C. E. Wardlaw, R.R. No. 6, Brampton, Ont.
PERTH COUNTY—
G. J. Richardson, R.R. No. 1, St. Paul's, Ont.
PETERBOROUGH COUNTY—
W. R. Dale, 245 Rubridge St., Peterborough, Ont.

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THE O.A.C. REVIEW

ODELL

REVIEW STAFF

R. J. McPHERSON, '31, Editor-in-Chief
A. J. S. GESNER, '32, Associate Editor

H. C. HARTLEY, '31, Live Stock
W. J. COWIE, '31, Agronomy
M. P. GLOVER, '31, Horticulture
P. J. SERFONTEIN, '31, Poultry
K. C. REYNOLDS, '31, Dairy
H. W. BRYANT, '31, Apiculture
L. J. LaPOINTE, '31, Chemistry

C. E. MIGHTON, '31, Biology
W. K. HARTLEY, '31, Alumni
D. C. McARTHUR, B S A. Alumni
P. A. PITTIS, '33, Athletics
R. B. MALKIN, '32, College Life.
F. JEROME, '32, Illustrator
A. W. TAYLOR, '31, Advertising

MISS D. A. BISSON, Sr. Mac. Rep.
MISS M. NEWBERRY, Jr. Mac. Rep.

EDITORIAL

HOW can interest in the Review be revived? The old question has come up again in so urgent a form as to necessitate the appointment of a committee to consider the situation. The committee will have to decide whether the disease is chronic, whether it would be advisable to end the patient's suffering at once, or whether it is really possible to put sufficient life into a publication of the Review type to interest the despairing Alumni and an apathetic student body.

In analysing the causes of these periodic declines, it is too often the case that the whole blame is placed upon the shoulders of the overworked Editor-in-Chief. It is seldom realized that, from a relatively small student body, it is by no means easy to select a man who has both the time, the ability and the desire to fill the position as adequately as it should be filled.

The advent of a weekly newspaper has certainly not helped matters as far as the students are concerned. Both publications are more or less dependent on student journalism, and the one which is most often before the public eye is bound to attract the more able pens for a time at least.

This is not the time or the place to make excuses, however. It is the purpose of the committee to review the whole situation, to recommend such changes in constitution and policy as they see fit, and to put forward as many suggestions as possible, which it is hoped will tend to revive interest in a publication which has been so intimately connected with the history and development of the Ontario Agricultural College.

Comment

It has been suggested that the S. C. A. make an inventory of the student body relating to the work and interests of each student outside regular curriculum studies. This would certainly be of interest, but would it bring results? It is a well-known fact that in any student body there are those who are overtaxed with responsibility of student organizations. You will notice we use the plural. For some reason some men seem to have work loaded on their shoulders either because they are soft enough to allow it or because they are led to believe that no one else will do the work. We are told that this work is part of our college course. Perhaps it is, but is any one given credit for it when the final examinations become a fact? We do not know that. If they are we are satisfied, but if not then we contend that it should be recognized, and also we are in favour of any method of publicity which will show just how much or how little some students are doing for the welfare of the student body.

During the last couple of years the College Orchestra has not been as popular with the student body as it might and ought to be. Why? How can this be remedied?

We do not say that the present management is not doing their best, but with the talent available we believe a real live orchestra could be organized. Would it not be possible to get some member of the faculty who is capable of acting as conductor really interested in the orchestra? Other colleges and even collegiates have real, live, snappy orchestras. Why can't we?

The Death of Collegiatism

THE passing of the old regime is so much more often regretted than criticized that the modern youth has been placed universally on the defensive. The modern college student has to guard a double frontier as he must also face the attack of the world's self-made men that a college is in their words "a lotta bunk." Much of the criticism has been justified. It is true that rugby sometimes obscures convocation and things like that. But we feel that the university everywhere has taken a decided turn for the better in the last few years. That strange, ridiculous, gaudy, and well-advertised atmosphere which might be called Collegiatism is sick with a mortal disease and the germ that sent it to its death-bed is intelligence. The idol of the school is no longer Joe College, the man with the striped sweater, skull-cap, ukelele, and seven-league-voice. He has changed his attire for an Oxford coat and a dark foulard tie, but there is more change than that in him. He would rather tell you about his new course in Modern History, his views on student government, or of course the prospects in the intercollegiate. Joe never ceased talking about Clara Bow.

Last year, there was a talkie called, "College Life." This great production from the land where a little atmosphere becomes a great national custom and every one sees with

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Union Literary Society Holds Opening Meeting

The Union Literary Society held its first meeting of the season on Friday, October 24th, in Memorial Hall, with W. J. Cowie presiding.

A debate, "Resolved, That New Ontario offers better prospects to the young farmer than do the Prairie Provinces", was the main feature of the evening. The Seniors, for the affirmative, were represented by E. W. Kendall and H. J. Watt, while E. J. Doyle and W. J. Garnett represented the Juniors.

The judges for the debate were E. T. Goring, E. H. Garrard, and Prof. F. C. Hart. Their unanimous decision was for the Seniors though Mr. Goring in giving their decision, also gave to W. J. Garnett the credit of being the best debater of the evening.

A general discussion by the audience on the debate created much laughter. It is to be hoped that on future occasions this feature of the programme will arouse keener interest.

Miss Dorothy Pugh rendered a solo very acceptably. The motion pictures, "Life at the O.A.C.", were realistic and were thoroughly enjoyed. During the evening Earl Mighton with his mouth organ band of "Melody-men" played several old time popular pieces.

Sophomores Win Debate

"Resolved, That the policy of the Canadian Wheat Pool has not been in the best interests of the grain growers of Western Canada", was the subject of the debate between the Sopohomores and the Freshmen, held in Memorial Hall on November 4th.

The Sophomores had W. Godfrey and A. Hales as their choice, while the Freshmen, with the affirmative side, were represented by W. R. Wilson and G. I. Honsinger.

Mr. G. P. Collins, in giving the decision of the judges, said that the negative side had won by a margin. He criticised all the debaters for a lack of adequate proof of their statements and for not driving home their points. The other judges were Professor E. C. McLean and Mr. G. N. Ruhnke.

The general discussion on the debate proved more popular than at the last meeting. W. J. Cowie, presiding, set a time limit of 3 minutes so that all desiring could take part.

The playlet, "Catharine Parr", was well presented. Miss Muriel Bostwick, Earl Nephew and C. R.

Messer provided an entertaining twenty minutes. Also during the evening we had the pleasure of again hearing R. W. Morrison's voice when he rendered a solo, accompanied on the piano by Mrs. Fuller.

Doctor Christie presented the '05 Scholarship for the best all round man at the end of the Third Year to J. B. Sheldon, whom he congratulated. The President commended the spirit of Year '05 for giving this scholarship and mentioned those who have formerly received it. This scholarship of $50 has not been given every year because sometimes the Third Year could not decide on the best all round man.

The Governor-General's Medal for General Proficiency in the first two years' work was also presented by Doctor Christie. This medal was secured by R. A. Stewart who had an average of 78.5%.

Sophomore Hallowe'en Dance

The Hallowe'en Dance on the evening of Friday, October 31st, marked the culmination of weeks of labour and ingenious planning on the part of the Sophomore Year. The Dance was a success from all reports received.

The decorations were most ably planned, with the invaluable assistance of Mr. John Kendall, and the final effects were indeed gratifying to those who had tirelessly wielded paint brushes and scissors, pushed thumb tacks, and pricked their fingers time after time with pins.

Angus Banting deserves special mention for his ingeniously devised and most artistically executed witch truly quite in keeping with the ancient traditions of Hallowe'en.

Over three hundred and eighty couples danced to syncopated harmonies, provided by Jeans' well known melody makers, the Clef Dwellers of Galt, and Ramsay's orchestra from Brampton.

Dr. and Mrs. Christie, Prof. and Mrs. Squirrell and Mrs. Fuller, received the guests.

After the dance was over, (and the end came all too soon), the Sophomores had the cheerless job of undoing all the work of the last few weeks.

Principal Gandier Addresses Students

On Tuesday, November 18th, the Student Christian Association of our College was host to Principal Alfred Gandier, of Emmanuel College, Toronto. Around tables, which completely filled the auditorium of Brooklyn Mission, the study groups of our college united in welcoming their distinguished guest.

Under the skilful guidance of capable dietitians from Mac. Hall a supper was served, which in itself would have insured the success of the evening. Following this Andy Taylor gave a vivid description of Elgin House Conference. He told how representatives of every Canadian University meet each year in the heart of Muskoka for a real, ten day, inter-university conference.

Principal Gandier as the main speaker of the evening presented very clearly the Christian viewpoint of life and the challenge it throws out to every student. Our S.C.A. is to be congratulated on the success of the evening.

BIRTHS

To Mr. and Mrs. W. D. Tolton, nee Olga Wilson, a son, William Roderick, at Guelph, on October 12. It may be noted here that both Mr. and Mrs. Tolton graduated in the '28 classes.

PAST EDITOR OF THE REVIEW RECEIVES MASTER'S DEGREE

John B. Munro, Deputy Minister of Agriculture for British Columbia, was awarded his Master of Science in Agriculture degree by the University of British Columbia at the fall convocation on October 29th. Mr. Munro was editor of the Review in 1919 and graduated in 1920. Two years later he commenced his studies on "Native Forage Plants and Their usefulness on the Range." The work was conducted under the direction of Dr. G. G. Moi and Dr. D. G. Laid of the department of Agronomy at the U. of B. C.

SCHOLARSHIP AWARD

M. W. Chepesuik, '30, First Recipient under new basis

The Bright scholarship for Proficiency in Animal Husbandry has been during the past year put on a permanent basis and according to recent announcement will be awarded henceforth for proficiency in Animal Husbandry during the third and fourth years. M. W. Chepesiuk of '30 has received word that he is the first winner under the new basis as a result of his achievenment during his last two years at the College.

The scholarship takes its name from Mr. Bright, the donor and a former Livestock Commissioner for the Dominion. The award was previously made for work in Animal Husbandry in the Associate Course it was then allowed to lapse for a year and has now been established on a permanent basis for third and fourth year work.

Agricultural Representative Branch

R. S. Duncan, Director
J. E. Whitelock, Assistant Director
M. C. McPhail, Assistant Director

Agricultural Representatives

Giving name of County, Representative and address.

Algoma. J. M. MacIntosh, Sault Ste. Marie.

Brant, H. A. Dorrance, Brantford.

Bruce, F. Forysth, Walkerton.
Carleton, W. M. Cockburn, Carp.
Cochrane, Daniel Pomerleau, Cochrane.
Dufferin, R. C. Banbury, Orangeville.
Dundas, J. A. Simpson, Morrisburg.
Durham, E. A. Summers, Port Hope.
Elgin, F. S. Thomas, St. Thomas.
Essex, S. B. Stothers, Essex.
Frontenac, A. W. Sirett, Kingston.
Glengarry, F. C. McRae, Alexandria.
Grenville, A. M. Barr, Kemptville.
Grey, T. S. Cooper, Mardale.
Haldiman, A. G. Skinner, Cayuga.
Halton, A. G. Kirstine, Milton.
Hastings, Jos. Wilson, Stirling.
Huron, Ian McLeod, Clinton.
Kenora, D. E. MacRae, Dryden.
Kent, J. A. Garner, Chatham.
Lambton, W. P. Macdonald, Petrolia.
Lanark, W. A. Davidson, Perth.
Leeds, J. R. Ostler, Athens.
Lennox and Addington, A. D. Runions, Napanee.
Lincoln, E. F. Neff, St. Catharines.
Manitoulin, R. E. Cumming, Gore Bay.
Middlesex, W. K. Riddell, London.
Muskoka and Parry Sound, R. M. Tipper, Huntsville.
Norfolk, F. C. Paterson, Simcoe.
Northumberland, W. H. Smith, Brighton.
Ontario, W. M. Croskery, Uxbridge.
Oxford, G. R. Green, Woodstock.
Peel, J. C. Shearer, Brampton.
Perth, C. D. Graham, Stratford.
Peterboro, J. B. Nelson, Peterboro.
Prescott and Russell, F. Larose, Plantagenet.
Prince Edward, F. J. Webster, Picton.
Rainy River, N. W. Harrison, Emo.
Renfrew, F. Q. Dench, Renfrew.
Simcoe North, S. L. Page, Barrie.
Simcoe, South, F. A. Lashley, Alliston.
Sudbury, P. A. Dorion, Sudbury.
Temiskaming, M. F. Cook, New Liskeard.

Thunder Bay:

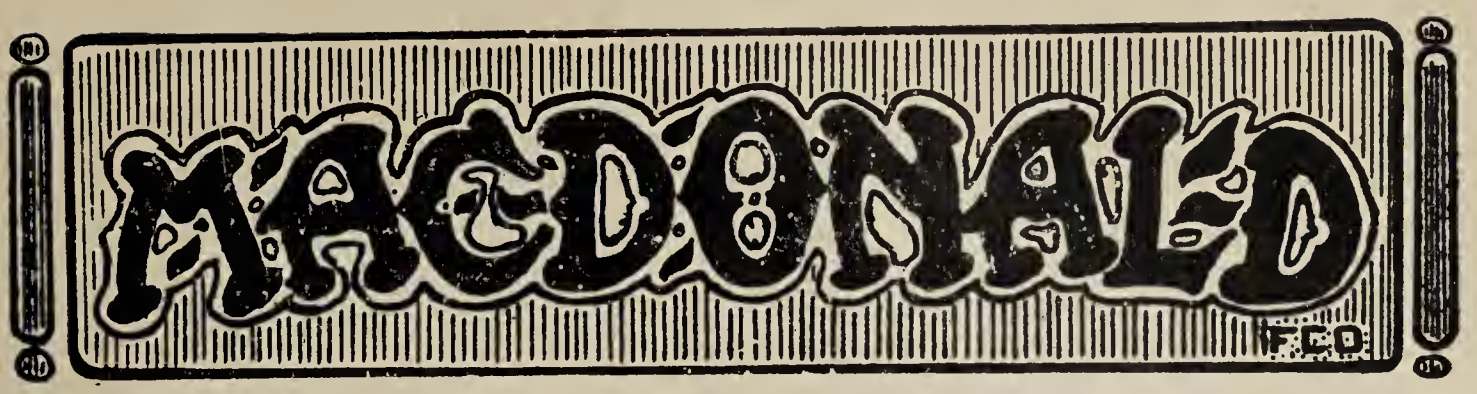
Fort William Section, A. A. Toole, Fort William.
Port Arthur Section, C. W. Buchanan, Port Arthur.
Victoria, M. H. Winter, Lindsay.
Waterloo, E. I. McLoughry, Galt.
Welland, R. R. Fleming, Welland
Wellington, R. H. Clemens, Arthur.
Wentworth, W. G. Marriett, Hamilton.
York, R. E. White, Newmarket.

Assistants

Bruce, L. M. Kerr, Walkerton.
Elgin, J. A. Charlton, St. Thomas.
Essex, E. R. McClellan, Essex.
Grey, A. V. Langton, Markdale.
Huron, H. L. Atkinson, Clinton.
Middlesex, J. A. Berry, London.
Oxford, A. G. Douglas, Woodstock.
Wellington, H. L. Fair, Arthur.

Home Demonstrator

Peel, Miss Alma Wise, Brampton.



"THANK YOU," INGA

Extracts from a letter received from a Mac Hall graduate.

"Knowing some of the difficulties attached to getting sufficient material to build up the Mac Hall section to its proper proportions, particularly the first few issues, I thought I might be able to help a bit.

"You may gather that I am interested in the Review. I am; and want to see it 'go'.

"Yours sincerely,"

"Inga Hislop, '29."

This was enclosed.

* * *

DIET KITCHEN DITTIES

To begin with, you wake at the streak of the dawn
With a "Brrr" from the clock by your head.
Then you look at the clock, and before you can yawn
You go back to your slumber instead.

Then you wake with a jump, and ten minutes to go,
Pull on all your garments of white,
Take a wash, make your bed, pin your cap on just so,
Make a dash—and you get there all right.

Unlocking the doors as you hurry along
With a cheery "Good Morning" to all,
You breeze in and find everything has gone wrong,—
Why, your spirits, quite naturally, fall.

But you get over that with your breakfast, and so
By the time you have been there an hour,
You are making queer figures with griddlecake dough,
Or are up to your elbows in flour.

* * *

We were certainly delighted to hear from one of Year '29. Her interest in The Review stimulates us to increased effort and action that we may live up to the best efforts of years gone by. We would appreciate very much hearing from any ex-students at any time and would be greatly interested in their post-Mac experiences.—Mac. Ed.

HALLOWE'EN DANCE

Mac Hall extends its annual enconium and expression of gratitude to the Sophomore Year for the manner in which it fixed "us" up. If we had not witnessed their painstaking and scientific transformation we might have employed the epithet "magic". We scarcely knew ourselves. We appreciate the supreme effort of the artists, carpenters, paper-hangers, and organizing spirits which thus created the festive and fairy atmosphere for a delightful dance.

THE S.V.M. RETREAT AT McMASTER

The members of the Students' Volunteer Movement held a "Retreat" at McMaster University on Saturday and Sunday, October 18th and 19th. We, Muriel Hutchings and Vera Fierheller, were sent to represent Mac Hall.

The greater part of the morning was spent in registration and discussion of the problems introduced by a "Question Box". We did not arrive till 2 p.m. and found that the afternoon programme included the Rugby game between McMaster and Western, and a hike.

Immediately after the game we started on a tramp through the delightful ravines back of the University. We thoroughly enjoyed this and also the game of "tag" which took place on the campus at the close of the hike. At 6 o'clock we had supper in the refectory.

The evening session commenced at 6.45 in the Women's Common Room of University Hall. It was opened with a Sing Song, after which personal experiences were given by some of the delegates and a discussion took place. Dr. Waters, who has spent some years in India, gave his impressions of the needs of that country. This was followed by an intermission of a few minutes during which the delegates tried to become better acquainted with each other. Mr. Dixon Smith, another missionary from India, gave an address on "Preparing Ourselves".

What I considered the most interesting talk of the evening was given by Mr. Griffin, a Professor of English in Formosa University. He stated that he was offered the position by the authorities because he was the only man they knew of who didn't drink. Mr. Griffin was in Yokahama during the terrible earthquake and told briefly a few of his experiences of that time. This concluded the evening session. After the session Mr. Griffin, while showing some cobra skins he had brought with him, stated that a Japanese doctor had found a remedy for the bite of this snake. It consists of twelve different substances, six to be taken inwardly and six to be injected. It is not known which of the twelve really makes the cure and he said the greatest difficulty was the fact that one couldn't very well carry twelve bottles around with one all the time.

Sunday morning devotional exercises began at 9.30 followed by an address by Jesse Wilson, the principal speaker of the conference, on "Christian Missions in a Waking World". At eleven o'clock there was service in the new chapel of McMaster, which is to be formally dedicated in two weeks time. Mr. Wilson again was the speaker, and the Chancellor of McMaster welcomed the delegates to the University.

After dinner a report on the Grenville, Ohio, Conference was given. This was followed by a very interesting address by Miss Isaacs, a missionary in Japan. A talk on Western Africa followed and after some discussion the meeting broke up.

From University Hall we went to the Science Building where Mr. Griffin gave a thrilling account of Formosa, illustrating his lecture with slides of the most interestng points. He has a wonderfully magnetic personality and keeps one intensely interested every moment. After this lecture the women delegates were

invited to the Common Room of the Girls' Residence for tea.

The Sunday evening session was a Communion Service, after which we said "Good-bye", regretting that we so soon had to leave such an ideal spot and the acquaintances recently made.

SENIOR INSTITUTIONAL TEA

The tea given by the Senior Institutional Class, in honour of their Juniors, was held in the College Cafeteria on Thursday, Oct. 23rd.

Miss Church, the class president, and other members of the Executive received the guests. Mrs. Christie and Mrs. Fuller presided over the prettily arranged tea table.

Miss Bovair played soft music during the tea hour, after which Miss Crawford and Miss Couse sang very pleasingly.

After having spent a very pleasant afternoon the happy gathering broke up, feeling that the bond of friendship between the Seniors and Juniors had been greatly strengthened.

GIRLS IN SPORT

Just a few years ago the field of sport was solely occupied by boys and men but today we find that more and more girls are entering nearly all spheres of athletics. The keen interest women and girls are taking in sports and the active part they are playing is evidenced by the women contestants in the Olympic games which draw their representatives from all parts of the world. This summer eleven countries of the British Empire met in friendly rivalry at the most gigantic amateur athletic meet ever staged,—British Empire games, when a whole day was devoted to girls' Canadian championships, with some very gratifying results.

Because of the enthusiasm that the girl of today has regarding sports, we organize our athletic associations; the prime object of which is the fostering of clean sport and the stimulation of interest in athletics. No girl goes to College solely to take part in athletics. Neither should she go without taking part in any. The happy medium can be found and the student who studies well and plays hard will be found to succeed in College and later life. The wide range of sports open to girls makes it possible for everyone to choose a certain type for her recreation.

The girls at Macdonald Hall are privileged to participate in many organized sports such as basketball, tennis, badminton, hockey and baseball. Track and field events and swimming complete the varied programme.

This year for the first time in College history a joint Field Day was staged when the pride of Mac Hall and O.A.C. held their track and field events together. In spite of the fact that this was a new venture, the time schedule was maintained throughout the day. The events were well supported and enthusiastically entered. Great credit is due Miss McQueen for her capable leadership and untiring efforts in making Field Day an outstanding success.

While great honor is due to the winners of the various medals, much credit should be given to all those who participated in such a sportsmanlike manner in the various events.

The majority of the honours went to the Seniors, but the Juniors made a good showing and have some splendid results to their credit.

This year the cup was won by Betty Christie, Sr. Associate, who scored 24 points. Nancy Taylor, Jr. Associate carried off the silver medal with 15 points, and Harriet Taylor, Sr. Associate, merited the bronze medal with a total of 11 points.

Mac Alumnae News

Correspondent—Grizzell Hart, 148 Dunvegan Rd., Toronto, Ont.

MARRIAGES

Smyth—Snyder

On Wednesday, October 15, 1930, at the First United Church, Waterloo, Ontario, Helen Gertrude Snyder was united in marriage to James Harold Smyth, of Kitchener.

McCall—Gilbertson

On Thursday, October 9, 1930, at St. Paul's Presbyterian Church, Simcoe, Helen Margaret Gilbertson was united in marriage to Cameron McCall, of Simcoe.

McWilliam—Leitch

On Saturday, August 23, 1930, at Orillia, Helen Nicholas Leitch, daughter of Professor and Mrs. Archibald Leitch, was united in marriage to George William McWilliam.

SOME OF THE S.S.G. '29 AND OTHERS

Ruth McCabe, Peg McLaughlin, Bessie Fraser and Marion Laing, S.S.G. '29, are all employed by Stouffer's Lunch Co., in Detroit.

Jo Ashton and Margaret Laughlin, '27, are also employed by the same company there.

Dear Alumnae,—

How it all happened I cannot say! At any rate I find myself responsible for the Alumnae News in the O.A.C. Review. 'Tis news we crave! 'Tis news we must have! If any of the Mac graduates feel the urge to endow an orphan asylum or to discover a new dietetic streptococci I do hope that they will immediately take steps to satisfy the urge. I can think of nothing that would add more zest to the column.

Last year, in a most ambitious and energetic moment, I enrolled at the University in the Journalism class. Owing to a socially slow October I attended two of the twenty lectures given. At this present moment I feel that the thing I need most in the world are those other eighteen lectures. If we were prone to look for morals I'm afraid there is one there.

In spite of a resolve to indulge in no more such courses I find myself once more involved. This time it is lectures in cookery given at the Consumers' Gas Company in Toronto. These lectures should be of special interest to all Mac graduates because Gladys Eaton, '24, was a pioneer with this company in this work. The work, which she so successfully began, has been capably carried on by Helen Wilson, '25, and now Laura Pepper, '26.

Lectures are given to approximately thirteen hundred people each week. There are different classes

held at various times during the week. On Monday and Tuesday nights there are classes for business girls. Two afternoons a week they demonstrate to Homemakers. On Saturday mornings the C.G.I.T. and Girl Guides are looked after. Incidentally all lectures are free.

The lectures take the form of demonstrations. Each week a different subject is discussed. Possibly one of the most interesting subjects so far was on "Crispy Toasts and Hot Breads". Five recipes were demonstrated:—

1—Tea Biscuits.
2—Butterscotch Muffins.
3—One Egg Muffins.
4—Nut and Date Bread.
5—Cheese Dreams.

Tea biscuits headed the list. Isn't the making of a good tea biscuit and a good cup of coffee the hinge on which matrimonial bliss is supposed to swing? Those which "Lallie" Pepper produced the other night were surely a triumph!

Each person who arrives is given a sheet of paper on which are the recipes and methods of combining the ingredients. This enables one to follow the demonstrator very closely.

The lectures are most useful because they give you new and attractive recipes. You can also see and taste the finished product. This is a big help—especially the tasting. Often you read over a recipe in a magazine and think it sounds good. You, however, are not nearly so apt to try it as if you had had the finished product to eat at someone else's house.

Many practical hints are given throughout the demonstration. For instance, if you wrap your rolling pin in a small white cotton stocking, (we would strongly recommend you purchasing a pair for this very purpose), you will find that pastry and biscuit dough will not stick to your rolling pin. This is a most valuable suggestion for a hot day when your husband has just called up to tell you about the very special, but unexpected, dinner guest he is bringing home.

If I tell you that I have not missed a lecture since I started in September, it will give you some idea of how very interesting they have been. For further proof I suppose I should state that the social season has been decidedly up to standard.

If any of the Mac Alumnae happen to have any news I would certainly be very glad if you would mail it to me. From the foregoing you can plainly see that the news need not be exciting to be acceptable.

City Frosh to Senior—"Say, Mr., what's those things on the cow's head?"

Senior—"Those are the cow's horns."

Cow—"Moo-o-o."

City Frosh—"Mr., which horn did the cow blow?"

Then there was the dizzy young thing whose husband was going moose hunting. She said she thought that it would be a lot of fun and hoped he would bring home lots of it, preferably strawberry.

Review and Preview

Our rugby team, although not champions, certainly turned in a very creditable showing but we expect a much better showing next year as Coach Baldwin's training begins to filter through.

Winning their group, the soccer team are well on their way to the Senior Intercollegiate Championship. For their first year in senior soccer, they are setting a smart pace and we have to hand it to them.

Early as the season is, we hear rumours of a fine hockey team shaping up. The team have begun practising on artificial ice over in Galt and much good material is reported. We have also heard whispers of a return game series with Michigan U. some time around the beginning of January.

Thirty-Five men have turned out for basketball and although individual merits have not been ascertained as yet, Manager Pettit tells us his team is going to be the best ever floored around the college.

Prof. W. J. Squirrell has been appointed coach of the baseball team and will represent the college at the Interfaculty Baseball Club meeting in Toronto on November 20th. Five men are all that remain of last year's team and since reorganization is not complete we have not the details on the relative strength of this year's team.

FINAL TEAM STANDING IN RUGBY

	Won	Lost	Play.
Aggies	2	2	4
McMaster	4	0	4
Western	0	4	4

SCORES

Aggies vs. Western, October 11th, 6—1.

Aggies vs. McMaster, October 15th, 8—19.

Aggies vs. Western, October 25th, 19—2.

Aggies vs. McMaster, November 1st, 3—7.

McMaster vs. Western, October 18th, 14—3.

McMaster vs. Western, October 29th, 14—3.

Records Fall at Annual

The first joint Field Day to be held on the campus proved to be a decided success on Tuesday, October 14th.

Indian summer weather and efficient organization combined to give the numerous spectators every opportunity of enjoying the display of athletic prowess.

Ernest Kendall, having discovered he could run as well as swim last year, cleared the board in the distance run and running broad jump to win the Grand Championship with a total of 23 points and incidentally broke the mile record in the fast time of 4 min. 44 3-5 seconds.

A collar bone broken earlier in the season failed to stop Jack McNally, '34, from winning all three dashes to carry off the championship for short distance runs. He was also runner-up for the Grand Championship with 15 points, closely followed by Conover, O.V.C., who gained 13 points.

Bermuda again appeared on the map when Geo. West was declared weights champion, while the medal for jumping and vaulting was won by Gord. Wright.

Results

Standing Broad Jump—1, T. W. Higgins, O.V.C.; 2, G. Wright, '33; 3. B. Cohoe, '32. 9 ft. 1½ ins.

Discus—1, G. West, '33; 2, G. Wright, '33; 3, F. Gfeller, '32. 84 ft. 8 ins.

One Mile Run—1, E. W. Kendall, '31; 2, R. Thompson, '31; 3, W. Garnett, '32; 4 min. 44 3-5 secs. Record.

16 lb. Shot Putt—1, A. Watt, O.V.C.; 2, T. W. Higginson, O.V.C.; 3, G. West, '33. 34 ft. 1 in.

Javelin—1, F. H. Conover, O.V.C.; 2, G. West, '33; 3, H. Saunders, 34. 132 ft 8 in. Record.

Running Hop, Step and Jump—1, S Mitchell, '31; 2, J. Wishart, '32; 3, B Teasdale, '34. 37 ft. ½ in.

220 yds. Low Hurdles—1, McLean, O.V.C.; 2, Van Diepen, '34; 3, Rutherford, '33. 29 3-5 secs.

Running Broad Jump—1, E. W. Kendall, '31; 2, B. Teasdale, '34; 3, A. Stewart, '32. 19 ft. 1½ ins.

100 yds. Dash—1, J. McNally, '34; 2, N. C. Lindsay, '31; 3, B. Cohoe, '32. 10 4-5 secs.

Running High Jump—1, G. Wright, '33; 2, K. Galbraith, '31; 3, T. W. Higginson, O.V.C. 5 ft. 4 ins.

220 yds. Run—1, J. McNally, '34; 2, N. C. Lindsay, '31; 3, B. Cohoe, '32. 24 secs.

½ Mile Run—1, E. W. Kendall, '31; 2, R. Thompson, '31; 3, H. Pettit, '32. 2 min. 10 2-5 secs.

Pole Vault—1, McNiven, '34; 2, F. H. Conover; 3, Van Deipen, '34. 9 ft. 7½ ins.

440 yds. Run—1, J. McNally, '34; 2, N. Hogg, '32; 3, A. Wilkes, '34. 56 secs.

One Mile Walk—1, H. Webster, '32; 2, Beauchamp, '34; 3, Ewen, '34. 9 min. 5 3-5 secs.

120 yd. High Hurdles—1, Van Deipen, '34; 2, McLean, O.V.C.; 3, Rutherford, '33. 20 secs.

3 Mile Run—1, R. Thompson, '31; 2, E. W. Kendall, '31; 3, W. Garnett, '32. 17 min. 7 3-5 secs.

Inter-Year Relay—1, '34; 2, '32; 3, '31. 4 min. 5 secs.

Champion—E. W. Kendall, '31.

Runner-up—J. McNally, '34.

Western "U' Wins Intermediate Track Meet

Kendall Outstanding for O.A.C.

O.A.C. and McMaster were completely outclassed at 'Varsity Stadium, Friy, October 31st, when Western captured the Inter-Collegiate Intermediate Track and Field Meet by the slim margin of two points from 'Varsity. The track was very slow and weather conditions were anything but ideal for running, with a cold, damp wind sweeping the stadium.

Ernie Kendall ran two great races to win second place in both the mile and the half-mile. He led Lee of 'Varsity all the way in the mile but failed to hear him coming in the final stretch and was beaten to the tape by a matter of inches. In the three-mile Hayworth of 'Varsity clipped 15 seconds off the record, though we fancy Bob Thompson, who finished second, would have pushed him closer than he did, had he stayed with the leader in the first mile. Conover, who was third in the javelin throw, was the only other man on the team to get a place.

The final count was: Western 55, University of Toronto 53, McMaster 17, O.A.C. 10.

O.A.C. fielded the following team:— G. A. Wright, F. Conover, E. W. Kendall, R. G. Thompson, W. Higginson, B. Teasdale, J. Wishart, J. K. Galbraith, D. MacLean, W. Van Deipen, J. McNaly, N. Lindsay, H. Pettit, N. Hogg, W. McNiven, W. J. Garnett.

Harriers Bring Home the Bacon

Brotherton Cup to O.A.C. for Tenth Time

Once more the Brotherton Cup has returned to the O.A.C. In fact, this is the 10th time it has happened and we are wondering why it doesn't become a permanent fixture. Tuesday, October 28th, the Harrier team, headed by Bob Thompson, romped home at Upper Canada College. The odds were against the O.A.C. team this trip, as the first highly organized attempt was made to frustrate the almost sure victory of the team.

The few O.A.C. men who witnessed the finish of the race were genuinely thrilled. Wally Graham, of Meds, entered the last quarter-mile stretch followed closely by two other Meds and our Bob. Bill Garnett was next with a Med and an S.P.S. man following and Ernie Kendall coming eighth. Then the fun started. Apparently Bob had set his mind on being first, for with a real sprint he passed Wally Graham and the two Meds who had been in front for the whole race. Ernie Kendall also decided just about then that he wasn't quite satisfied with his placing so he proceeded to lengthen out his stride until he found himself with no one in front but Thompson and Graham. Bill Garnett passed his man also and came in fifth. G. W. McCarthy, Stan Malkin, Don Dalziel, Milt Powell and Murray

Clover certainly contributed their share to the glories of the day.

The following are the official results:

1. **R. Thompson, O.A.C.** 32.07
2. W. Graham, Meds 32.09
3. **E. W. Kendall, O.A.C.** 32.15
4. Fred Lee, S.P.S 32.16
5. **W. Garnett, O.A.C.** 23.17
6. R. Thompson, Meds 32.19
7. W. G. McKeracher, Meds ...32.20
8. J. D. McLennan, Meds 32.24
9. R. Hayward, Meds 32.35
10. **G. McCarthy, O.A.C.** 32.40
11. R. L. Seaborn, Trinity 33.05
12. **S. Malkin, O.A.C.** 33.13
13. **D. Dalziel, O.A.C.** 33.29
14. T. Crawshaw, Wycliffe 33.48

Having tried for four years to get into Senior Inter-Collegiate Harriers, we sent an invitation team to Kingston on November 15th. The team made up of Thompson, Kendall, Garnett, Dalziel and Malkin, took second place, being only 7 points behind 'Varsity.

Group Championship to O. A. C.

Soccer Coming Into Its Own

By beating McMaster University on November 6th, the O.A.C. Soccer team clinched the Senior Inter-Collegiate championship of Western Ontario and won the right to challenge the winners of the Eastern group for the Ontario finals; incidentally, the boys have since made it four straight games.

The game was played on the coldest day of the present season and the attendance of O.A.C. rooters and their enthusiasm was very satisfactory considering the weather conditions.

McMaster won the toss and decided to play with the wind and therefore put themselves in a position that would necessitate them piling up a considerable score in the first period in order to win; this they failed to do thanks to the excellent work by the O.A.C. defence and goal keeper, while our forwards showed their mettle by repeated excursions into McMaster territory in the face of a strong wind and snowstorm.

Half time found the teams deadlocked as far as the score was concerned but, except for a miracle, the game as good as won for O.A.C. Immediately after the interval the Aggie forwards went into action and, except for a few McMaster rallies, kept the opposing defence busy.

Shortly after the opening of the second period Cowie registered with an excellently kicked penalty and put the O.A.C. in the lead. Within two minutes the O.A.C. scored again, Garnett slipping one in out of reach of the goalie.

Towards the end of the game McMaster started an attack that warmed up the half-frozen O.A.C. backs but failed to notch a goal and the final whistle found the Aggie on the long end of a 2—0 score.

The team as a whole played a good game, the forwards played excellent combination and showed speed and ability to stay with it to the end. Garnett and Cruikshanks were outstanding on the left wing.

The halves also played their best game of the season and kept the forwards well supplied with the ball.

The backs played extremely well,

SENIOR INTER-COLLEGIATE SOCCER CHAMPS OF WESTERN ONTARIO
Back Row:—Prof. W. C. Blackwood, Coach; W. J. Cowie, Capt.; W. McMillan; W. J. Wilson, Goal; M. P. Glover; R. Henry; N. Hogg, Manager.
Second Row:—J. Walker; W. Van Diepen; H. A. Gilbert.
Front Row:—D. Kennedy; B. Twamley; Swan; W. J. Garnet; G. E. Cruikshank.

particularly in the first half. MacMilland turned in his best game of the season, and "Pop" was the big factor in stopping McMaster when they had everything in their favor.

Bill Wilson gave his usual exhibition at good goal-tending—he didn't have much to do but what he did, he did well.

Boxing and Wrestling

College Team Entering the Senior Intercollegiate Company

Last year, besides competing in the annual Inter-Faculty meet at the University of Toronto, O.A.C. was entered in the Central Ontario Boxing and Wrestling League, competing with teams from Central Y.M.C.A., Toronto; Argonaut Canoe Club, Toronto; Dominion Glass, Hamilton; and Kitchener and Waterloo Y.M.C.A., Kitchener. Two cups were given to the clubs with the largest number of wins in wrestling; in boxing and in wrestling also a medal in each weight to the club winning in boxing and wrestling.

At a meeting of the representatives from these clubs, held in Brant Inn on October 8th, the winners were decided. Dominion Glass, Hamilton, won the Boxing Cup, and Kitchener-Waterloo Y.M.C.A. won the Wrestling Cup. O.A.C. was handicapped by not being

(Please turn to Page 130)

Suave Auto Salesman—"It runs so smoothly you can't feel it, so quietly you can't hear it, has such perfect ignition you can't smell it, and as for speed—you can't see it."

Londoner—My word! How do you know the bally thing is there?"

Mary had a little lamb,
A regular go-getter,
But it wandered into Wall Street
And now it needs a sweater!

Life in an apartment hold many surprises. Perhaps the greatest is when you try to turn off your radio, and find that for the past hour you have been listening to the set next door.—Life.

A negro was inspecting a friend's horse.

"You say dat hawse is lazy?"

"Lazy? Man—looka dat fly on his nose. Pestehs him consid'able, but he's waitin' till de's two or three befo' he bothehs 'bout sneezing' 'em off."

"I'm going to the hospital tomorrow for an operation."

"Good luck to you. I hope everything comes out all right!"

"What time is it, Maud?" boomed her father about midnight from the top of the stairs.

"Fred's watch isn't going."

"How about Fred?"

Excuse It, Please

He said while they were in Montreal Miss Halperin had told him that she had lured Rothernberg to the street corner where he was struck down by a fake telephone call.

Rastus—"Ef yo' says anything to me Ah'll make yo' eat yo' words, man."

Exodus—Chicken dumplings, hot biscuits and watermelon."

Needs Some Acrobatics

Elizabeth Ann ——, flower girl, wore a quaint Kate Greenaway maize gown with the puffed sleeves, touching her ankles.—Springfield Republican.

No More Professor Jokes

We are glad to hear that the absent-minded professor is dead at last. He came home full the other night and, mistaking himself for his pants, hung himself on the bedpost.—Vancouver Province.

Mrs. Motorist—"Why don't you ask someone where we are?"

Mr. Motorist—"What the deuce difference does it make? Five minutes from now we won't be anywhere near here."

The laziest man in the world is the one who held a cocktail shaker in his hand and waited for an earthquake.

News and Views

Migratory Birds Convention Act 1930

A summary of the Migratory Birds Convention Act is given below. This is the law which is based upon the Treaty with the United States. Any enquiries concerning this law may be addressed to the Commissioner of the National Parks of Canada, Department of Interior, Ottawa.

Open Seasons

Ontario

(Both Dates Inclusive)

North and West of the French and Mattawa Rivers and including all Georgian Bay Waters:

Ducks, Geese, Brant, Rails and Coots, Wilson's or Jack-snipe—September 1-December 15.

Woodcock—September 15-November 30.

South of the French and Mattawa Rivers, but not including any portion of the Georgian Bay waters—

Ducks, Beese, Brant, Rails and Coots, Wilson's or Jack-snipe—September 15-December 15.

Woodcock—September 15-November 30.

There is a closed season throughout the year in Ontario on Eider Duck (the latter may be taken during the open season in that portion of Ontario, north of the Quebec, Cochrane, Winnipeg line of the Canadian National Railway) Swans, Cranes, Curlow, Willets, Codwits, Upland, Plover, Black-bellied and Golden Plover, Groater and Lesser Yellow-Legs Avocets, Dowitchers, Knots, Oyster-catchers, Phalaropes, Stilts, Surf-Birds, Turnstones, and all the shore-birds not provided with an open season in above schedule.

There is a closed season throughout the year on the following non-game birds: Auks, Auklets, Bitterns, Fulmars, Gannets, Brebes, Guillemots, Gulls, Herons, Jaegers, Loons, Murres, Petrels, Puffins, Shearwaters, and Terns; and there is a closed season throughout the year on the following insectivorous birds: Bobolinks, Catbirds, Chickadees, Cuckoos, Flickers, Flycatchers, Crosbacks, Hummingbirds, Kinglets, Martins, Meadowlark, Nighthawks or Bullbats, Nuthatches, Orioles, Robins, Shrikes, Swallows, Swifts, Tanagers, Titmice, Thrushes, Vireos, Warblers, Waxwings, Whip-poor-wills, Woodpeckers, and Wrens, and all other perching birds which feed entirely or chiefly on insects.

No person shall kill, hunt, capture, injure, take or molest migratory game birds during the close season. Sale of these birds is forbidden.

The killing, capturing, taking, injuring or molesting of migratory insectivorous and migratory non-game birds is forbidden.

The possession of migratory game birds killed during the open season is allowed until March 31st, following the open season. In Ontario it is an offence to kill or attempt to kill any migratory game bird between sunset and sunrise.

Bag Limits

Ducks 15, but not more than 150 in a season, Geese 15, Rails 25, Wilson's Snipe 25, Woodcock 8, but not more than 125 Woodcock in one season.

Guns and Appliances

The use of automatic (auto loading), swivel, or machine guns, or battery, or any gun larger than number 10 gauge is prohibited, and the use of any aeroplane, power-boat, sail-boat, or night light, and shooting from any horse-drawn or motor vehicle is forbidden.

Penalty

Every person who violates any provision of this Act or any Regulation shall, for each offence, be liable upon summary conviction to a fine of not more than three hundred dollars and not less than ten dollars, or to imprisonment for a term not exceeding six months, or to both fine and imprisonment.

Bulbs for Winter Forcing in the Home

The amount of trouble needed to grow bulbs in the house is well repaid by beautiful flowers in winter and early spring. They can be grown in clap pots with earth or in fancy bowls with prepared fibre or in water alone. When pots are used be sure to put a piece of broken crock over the hole and a layer of smaller pieces for drainage before putting in the earth. The soil should be of a sandy nature so that water will run through it freely.

Narcissus (daffodils), tulips and hyacinths can all be grown in pots. When planting, place the bulb so that the crown is above the soil. After planting, water well, drain and then place the pots in a cool, dark place to root. When the roots begin to show through the hole at the bottom and the top is beginning to grow, bring the pot into a cool room and keep in a shady spot for a day or two. When the flower buds are beginning to show the plants should be brought into a warmer room and placed near the window. The plants must never be allowed to dry out but must not stand in water.

Another method of growing bulbs is to use fancy bowls and prepared fibre. The fibre is bought from seed-stores. The bowls should be shaped so that the bottom is nearly as wide as the top. The fibre should be evenly moistened but should not be too wet. Put a little in the bowl and place the bulbs on it, using as many as convenient. They should not touch each other nor the sides of the bowl. Do not press the fibre down too firmly, as the bulbs may be forced out of position if the roots cannot penetrate the fibre easily.

Some of the best bulbs for growing in soil or fibre are:

Hyacinths in various colours.

Narcissus: Emperor, Mme. Plemp, Sir Watkin, Klondyke, Laurens Koster, Seagulls.

Tulip. (Early) Queen of Netherlands, Mon Tresor, Murillo.

Tulip: (Darwin) Farncombe Sanders, Psyche, Clara Butt, Rev. W. Ewbank.

Some bulbs can be grown successfully in water alone. Hyacinths are grown in specially shaped glasses; Chinese Sacred Lilies and Paper White Narcissus in bowls. These are

kept in place by small stones which are packed around the bulbs. A small piece of charcoal should be added, as it helps to keep the water sweet. All bulbs should be kept in a cool, dark place until they are well rooted and then brought to the light gradually.

Isabella Preston, C.E.F., Ottawa.

Storage and Transportation Diseases of Vegetables

The costly shrinkage and deterioration in vegetables during the periods of storage and transportation in Canada is a matter of great concern to those who are closely associated with food handling. While it is impossible to estimate the losses occurring annually in the handling of vegetables, nevertheless, reports indicate that the problem merits serious consideration; a fact which is fully appreciated by wholesalers, transportation companies and the general public. Observations and experiments conducted by the Federal Division of Botany have shown that plant diseases are responsible for a large share of these losses. Furthermore, by applying the facts derived from scientific investigation encouraging progress has been made towards eliminating the diseases responsible for this waste. Sound vegetables, from well cared-for fields, if properly handled during storage and transportation, may be placed on the market without very great loss. Upon the grower, therefore, falls the responsibility of applying measures to prevent the development of the fungi and bacteria attacking his crops and causing such diseases as black rot of cabbage, celery blight, rhizoctonia rot of turnips, late blight rot of potatoes, and many others of importance. Such preventive measures are based upon our knowledge of the life history of the parasite involved.

In addition to the effect of parasitic diseases (caused by fungi and bacteria) there is a very important source of loss due to certain diseases of non-parasitis origin. They are of greater importance than may be seen by casual observation and the adoption of any efforts aimed to reduce losses from this source assures greater economy to those interested.

These diseases include black leaf speck of cabbage, redheart of lettuce and cabbage, blackheart and surface pitting of potato tubers. Such disorders commonly occur in storage and transportation throughout the Dominion and they are primarily the result of an insufficient supply of pure air combined with temperatures which prevent the utilization of the oxygen in the available air; for it is agreed by authorities that facilities which hinder the interchange of air are to be avoided. These two factors must be kept in mind when attempting to prevent the occurrence of diseases of this nature. Air channels are being provided in modern storage houses and railway cars by the installation of false floors and ventilating chutes. Under such conditions, and when the temperature

is regulated to remain between 36° and 40° F., losses from disease are reduced to a minimum.

R. R. Hurst, Dom. Exp. Sta.,
Charlottetown, P. E. I.

Changing Seed Grain

Persons who have new varieties to introduce and seeds to sell have always been strong advocates of seed exchange, saying, in effect, that it is a good principle of farm management often to vary the strain of seed grain to be sown. It is also a common belief of grain growers that there is a necessity for frequent change of seed, because of actual deterioration due to continuous culture upon the same soil or under the same climatic conditions.

Farmers are continually changing seed grain. He on the black land must have the seed from the sand region, and a man upon the hill must have his brought from the heavy soil regions. So, also with the question of latitudes, seed grain is often shipped long distances north and south very much at ramdom as to reason but usually with the hope that some good will come in increased yield because of the change.

Undoubtedly seed may become of but little value because of injury arising from disease, improper cultivation and a great number of causes which militate against the production of a normal type of kernel. Various types of plants will undoubtedly be produced from a given type of seed depending upon the character of the soil upon which each has grown. The Dominion Experimental Farms system composed as it is of numerous widely separated branch Farms, has given a particularly good opportunity to study this problem. However, it has not been demonstrated that such variations will in any way have an effect upon the next season's crop upon using this seed.

In considering the supply of good seed the farmer should take into account the suitability of his own stock. Is it the best variety available for his conditions Is it relatively free from other varieties, other kinds of grain, and weed seeds? Has it strong vitality? Can it be cleaned into first-class seed? If these questions cannot all be answered in the affirmative it is advisable to secure seed of suitable quality and purity elsewhere. Registered seed is the farmers protection and should be considered if possible for at least a portion of the crop. Seed requirements should be filled as early as possible, before the supply of suitable grain is exhausted.

W. C. McGregor, C.E.F., Ottawa.

Potatoes as a Substitute for Corn in Laying Mash for Poultry

During the past four years experiments have been conducted at the Fredericton Experimental Station to determine the value of potatoes as a substitute for corn. This work was begun in 1926 and covered a period each year from December 1st

to May 31st. In each instance, fifteen Barred Rock pullets were included in each pen at the beginning of the experiment and no birds were replaced during the period.

Group 1 was fed a standard ration of scratch grain consisting of 200 pounds cracked corn, 200 pounds feed wheat, 100 pounds oats, and a mash feed in hoppers consisting of 100 pounds wheat bran, 100 pounds wheat middlings, 100 pounds corn meal, 100 pounds crushed oats, 20 pounds bone char, 4 lbs. salt, 5 pounds charcoal. Grit, oyster shell, green feed, skim-milk and water were also supplied.

Group 2 was fed the same scratch grain mixture as Group 1. Instead of receiving a dry mash, as Group 1, they were fed twice a day a moist mash consisting of 100 pounds wheat middlings, 100 pounds wheat bran, 100 pounds crushed oats, 15 pounds bone char, 3 pounds salt, and 5 pounds charcoal mixed with boiled potatoes. The proportions fed were two parts of potatoes (raw weight) to one part mash. Grit, oyster shell, skim-milk, green feed and water were also supplied.

Where potatoes were substituted for corn in the mash, the results over a period of four years gave an average production of 89.65 as compared with 84.13 for corn. This would indicate that potatoes are a valuable feed for egg production, but involve a little more labour than when corn is used. The hatching results were not quite so encouraging. The fertility of the eggs was highest where potatoes replaced corn, but the hatchability was superior where corn replaced potatoes.

C. F. Bailey, Dom. Exp. Sta.
Fredericton, N.B.

A Scot was cashing a £20 cheque. When he received the notes he counted them carefully, stopping when he reached the nineteenth.

"Why don't you count the twentieth?" inquired the accountant.

"Aha, there might be two there."

Mother—"Why did you strike your little sister?"

Young Bobby—"Well, we were playing Adam and Eve, and instead of tempting me with the apple, ,she ate it herself."

"How do you like your women?"

"Well developed physically and mentally. Otherwise I'm not particular."

First Deb (listening to radio)—"I love that announcer's voice."

Second Deb—"It's nice, but he's awfully conceited about it. I hear he eats plank steaks to keep up the timbre."

The Senior Animal Husbandry Class had been judging lamb carcasses in the morning. At the 7.30 p.m. lecture a number of beef cuts were displayed, including a large rump roast.

The Tall Member of Class—"Is that No. 1, sir?"

Mr. Stillwell—"No, I think this would hardly go top grade."

Tall Member—"I meant was that from No. 1 carcass."

HEARD IN THE COMMON ROOM

1st Married Man—"My wife is always making me eat my words."

2nd Ditto—"You're lucky. Mine is always making me eat spinach!"

—and I like them because they are *blended right.*

Twenty for **25c**

Winchester
CIGARETTES

"POKER HAND" IN EACH PACKAGE OF 20

DAIRY PRODUCTS TEAM

(Continued from page 92)

given in which to score the seven samples to be judged. At the end of this time the team that was on milk shifted to ice cream, the one that was on ice cream went to butter, the one that was on butter went to cheese, and the one that was on cheese went to milk. The contest continued in the same manner until each group had scored the four products present.

We found conditions much better for judging at Cleveland than at Springfield. The place was larger, cooler, and not so crowded. The samples were kept in better shape throughout the contest. However, we were glad when it was all over and we were back at the hotel.

Monday we spent at the Dairy Industries Exposition, looking over the elaborate display of dairy equipment and machinery present. It was a very enjoyable and profitable day for us all.

Monday evening the results of the competition were announced and the prizes awarded in the music hall at the Public Auditorium. It was soon announced that D. B. Goodwillie stood second in the contest, winning one of the $750 scholarships. Goodwillie also stood first in ice cream, and third in butter, and was able to bring back to Canada with him no less than four medals. The team stood fourth in the entire competition. We were third in butter, fifth in milk, sixth in cheese and ninth in ice cream.

We all feel that we did much better than we ever expected to do, and that a great share of the credit for our success should be given to our coach, Mr. W. H. Sproule. We also feel that after this year it will be an annual occurrence for a Dairy Products Judging Team from O.A.C. to go to the National contest and to bring home at least one scholarship, besides standing as high or higher than we have done. We feel that we have only made a beginning.

HOW ABOUT IT, JAY

Runaway horses are headed off by policeman, but there's no known way to stop a woman who starts out ahead of the usher down a dark theatre aisle.

WATCH YOUR STEP, ARCHIE

Mac-ite—"I just adore dark men."

Co-ed—"You'd have a splendid time in Africa or Clappison Club House."

He (at Hallowe'en dance)—"Whew! What a crowd, baby."

She—"Crowd, big boy! Why, I just fainted and had to dance four rounds before I had a chance to fall."

Some day we hope a genius will come along and invent something that will make golf unnecessary.

Policeman—"How did you come to get that jar of honey?"

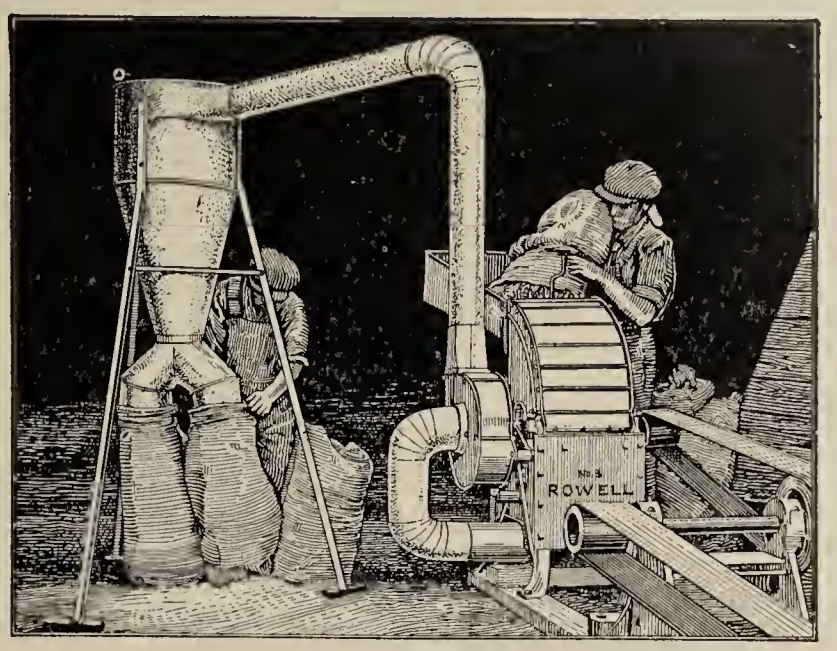
Tramp—"Well, I admit I don't keep no bees; but what's to stop a fellow squeezing it out of the flowers himself?"

At the present time married life does not look any too bright. One of our Senior benedicts has been sporting a black eye for several days and it is rumored that he was home for the **Thanksgiving** week-end.

Doctor (to fair patient)—"You certainly have acute appendicitis."

Fair Patient—"Oh, doctor, you flatter me."

A NEW ERA IN AGRICULTURE



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Wheat, Barley, Oats, Corn, Bone, Charcoal, Alfalfa, Clover, Straw, and other roughages are ground to the desired fineness by the Hammer Mill. This makes it much more suitable for farm work than the friction type grinder which is limited to grains.

Another point in favor of the Hammer Mill is that it grinds without heating the material.

With a Rowell Hammer Mill, sold by Massey-Harris, balanced rations can be prepared quickly and easily.

The swing type hammers used on these mills are pivoted from steel pins and should a stone, a piece of iron, or other substance enter the mill are allowed to swing back and let the object pass.

Made in four sizes, two for use with motors, and two for use with tractors.

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NAMES AND ADDRESSES OF FIRST YEAR STUDENTS

(Continued from Page 98)

RUSSELL COUNTY—

W. K. Corscadden, R.R. No. 3, Russell, Ont.

M. J. Dixon, R.R. No. 2, Billing's dge, **Ont.**

SIMCOE COUNTY—

C. J. Cerswell, R.R. No. 1, Beeton, Ont.

TEMISKAMING—

G. I. Honsinger, Hanbury, Ont.

THUNDER BAY—

J. V. E. Boulet, 503 N. Brodie St., Fort William, Ont.

J. R. Maley, Slate River, Ont.

E. E. Mitchelson, 178 East Francis St., Fort William, Ont.

VICTORIA COUNTY—

R. F. McAlpine, Reaboro, Ont.

WATERLOO COUNTY—

H. E. Markle, R.R. No. 1, Hespeler, Ont.

L. Roth, New Hamburg, Ont.

WELLAND COUNTY—

H. C. V. Hillis, 2264 West Culp St., Nagara Falls, Ont.

H. C. Killins, 1247 Heywood Ave., Niagara Falls, Ont.

M. J. Palmer, Wainfleet, Ont.

WENTWORTH COUNTY—

R. G. Martin, Sheffield, Ont.

H. B. Wressel, R.R. No. 1, Jerseyville, Ont.

WELLINGTON COUNTY—

R. S. Johnston, 8 **Lyon** Ave., Guelph, Ont.

E. D. White, 21 Oliver St., Guelph.

YORK COUNTY—

H. F. Clark, 1466 St. Clair Ave., W., Toronto, Ont.

A. S. Fleming, 70 Chestnut Park Rd., Toronto, Ont.

R. A. Key, 96 Bloor St. W., Toronto, Ont.

J. K. Knights, Queensville, Ont.

J. E. Moles, 134 Glenholme Ave., T nto, Ont.

L. R. McMullen, 88 Ardagh St., Toronto, Ont.

D. M. McMurchy, R.R. No. 2, King, Ont.

W. M. Perrin, Newmarket, Ont.

G. M. Rattle, Milliken, Ont.

A. S. Wideman, R.R. No. 2, Markham, Ont.

HEARD AFTER A MEMORIAL HALL PERFORMANCE

"After I'd sung my encore, I heard a gentleman from the bald-headed row call out 'Fine! Fine!' "

"Dear me! And did you have to pay it?"

Stout Girl—"Madge lost ten pounds in two weeks by worrying."

Double Ditto—"I tried that, but I couldn't keep my mind on it."

Mrs. W.V.D.—"My husband is away so much of the time I want a parrot for company. Does this one use rough language?"

Shopkeeper—"Lady, with this bird in the house you'd never miss your husband."

Manager (to office boy)—"Well, Jimmy, what would you do if we were to exchange positions?"

Jimmy—"I'd sack the office boy right away."

Mother—"Come, Freddie, and kiss your Aunt Martha."

Freddie—"Why, Ma, I ain't done nuthin'."

AS THE YEARS ROLL BY—

SOMEWHERE in your neighborhood stands a tree...deeply rooted, tall, broad and kindly...the grand old tree of the countryside. As a slender sapling swaying in the breeze, this same tree once heard the sly pad-pad of Indian feet. Much later it saw the very first telephone excite the neighborhood. It was there to hear the first automobile chug-chug into the community.

In the days before this tree first saw the telephone or the automobile, there appeared in many neighborhoods a slender sapling of a thing. Like the tree it has grown big, broad, stout, entering every neighborhood. A close friend it has become on many, many farms... a friend because of the job it has done. This something is Purina Chows, feeds for your stock and chickens, feeds which come in Checkerboard Bags. Consider what has happened since Purina Chows appeared 36 years ago. Pullets laying dozens instead of half-dozens. Cows milking gallons instead of quarts. Steers putting on pounds instead of ounces. Pork to market in six months. Better feed has done its share Purina Chows has told its story.

Purina Chows in a bag is eggs in a bag, milk in a bag, pork in a bag. Purina's big Experiment Farm broad laboratories, huge mixing mills make sure that you *do* get more of these things in every bagful. This is the reason why Purina Chows has grown from a slender sapling of a thing in a few neighborhoods to a welcome friend in every neighborhood. Like the grand old tree of the countryside, it's a live thing...a growing thing, getting bigger, broader, stouter as the years roll by. Ralston Purina Company, Limited, Woodstock, Ontario and Montreal, P. Q.

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More Locals

Jones was at a dinner party. He was shy and nervouse, and could never summon up courage to speak because of his inability to say anything neat. All the evening he had been trying to think of something nice to say to his hostess. At last he thought he saw his chance.

"What a small appetite you have, Mr. Jones," said his hostess, with a smile.

"To sit next to you," he replied gallanty, "would cause any man to lose his appetite."

Summer Comfort

If you are going to the Movies you can leave your

CLOTHES TO BE CLEANED AND PRESSED

Just at the Left of the Lobby

—Ad.

A Detroit wife had been absorbing the details of the recrd-breaking flight by Col. and Mrs. Lindbegh. "Never call me a back-seat driver again," she said flatly. "I'm the navigator."

Landlay—"I'm sorrry you do not think the chicken soup good. I told the cook how to make it. Perhaps she did not catch the idea."

Boarder—"No—it was the chicken she missed."

The town lady had moved to the farm to lead the rural life.

In the course of time it fell upon her to feed a threshing crew.

The day was exceedingly hot.

The work had been hard and continuous. It was a sweaty crew that assembled on the porch awaiting the summons to the table.

The lady stepped out to bid them enter. She took one look and sweetly remarked: "Men, will you please take off your overalls and come in to dinner?"

The Artist—"I hope you won't mind me coming to sketch in your field, sir?"

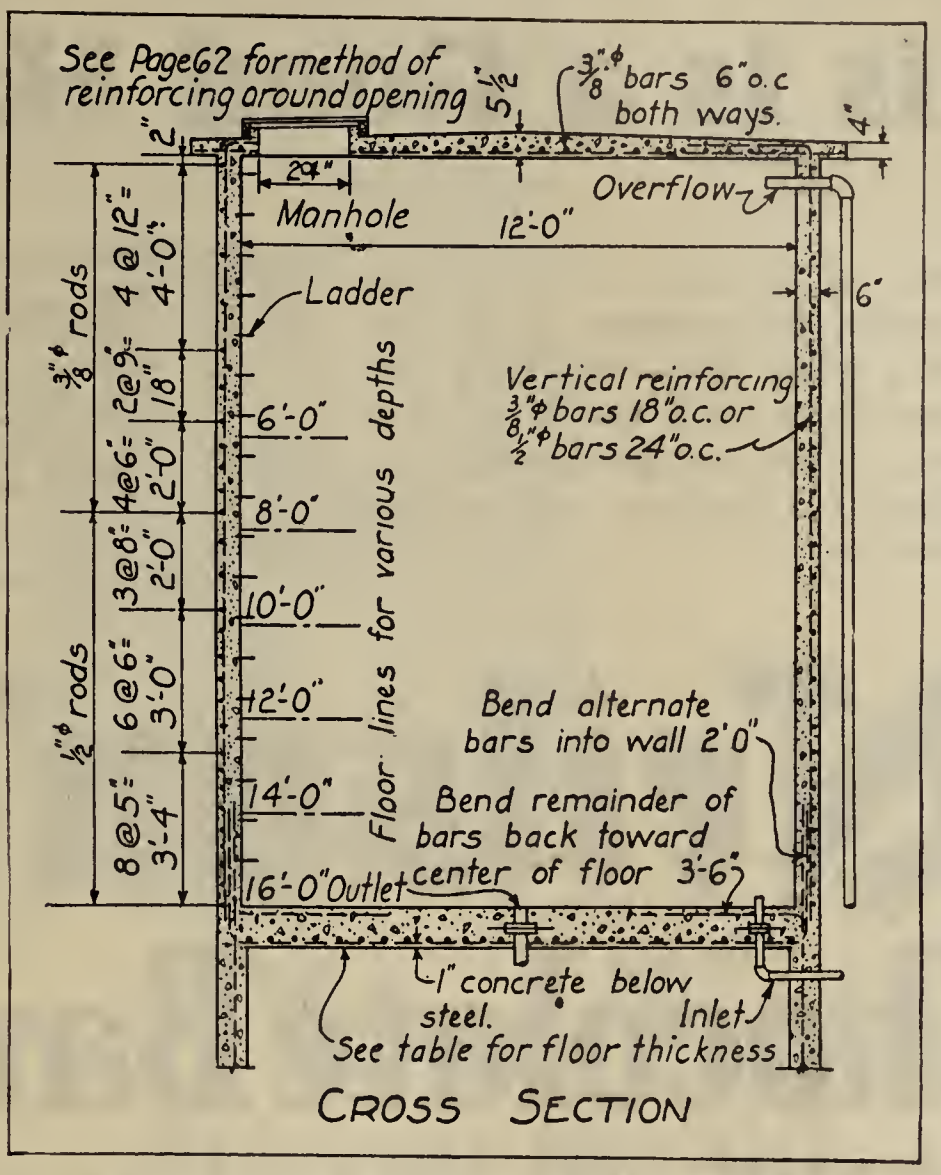
"Oh, no. You'll keep the birds off the pease better'n any ornery scarecrow."

First came the "realtor," then the "mrotician," later the "beautician," subsequently the "bootician," then the "pedicure." And the other day a large motor truck careened down Third Avenue, New York City, bearing the imposing legend: "Kelly & McGuire, truckologists."—Wall Street Journal.

"Don't you think the water is awfully hard here?"

"Yes, but it rains harder here."

—College Humor.



HOW TO FIGURE THE SIZE FOR YOUR CONCRETE WATER SUPPLY TANK

A gravity water system enabling the farmer to get water when he wants it by a urn of the faucet has advantages which are self-evident.. The average daily consumption of water on the farmer runs into hundreds of gallons. No more practical improvement could be made than a concrete supply tank which will put water under pressure for instant use when needed.

Clip and save this helpful table for estimating water requirements:

For each member of the family	25 gallons per day
For each Cow	12 gallons per day
For each horse	10 gallons per day
For each sheep	1½ gallons per day
Continuous drinking fountain .....50 to	100 gallons per hour
Use of ½" hose nozzle.....	200 gallons per hour
Use of ¾" hose nozzle.....	300 gallons per hour

Capacities of cyindrical water tanks 12 feet in diameter, varying in depth from 6 to 16 feet are as follows:

6 feet deep...:5,075 gallons	12 feet deep....10,150 gallons
8 feet deep....6,770 gallons	14 feet deep....11 845 gallons
10 feet deep....8,460 gallons	16 feet deep....13,540 gallons

Write us for booklet with complete plans and instructions for building this and other concrete farm improvments.

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FOR PERMANENCE

This is a Good Habit

Eating a bar of Neilson's Jersey Milk Chocolate every day—about 4 in the afternoon is a good time—will give you that extra energy to finish the day's work with a swing. Vigor and good health are in this delicious chocolate and besides every one loves it.

Neilson's Chocolate Bars

SOY BEAN INVESTIGATIONS

(Continued on page 87)

cessfully in the experimental fields at the College for nearly forty years but it was felt that in view of the importance this crop has attained in other countries, arrangements should be made to test it on a much larger scale in Ontario. Consequently in 1929 a start was made with seventeen two-acre demonstration plots located on farms in the south-western counties. Twe varieties were used—O.A.C. No. 211 and Manchu—one-half acre of each variety being grown for seed production and a similar area for hay. Farmers reported good yields of soy bean hay which was greatly relished by farm animals. In 1930 the number of these demonstrations was increased to thirty-six, and they were located in nearly every county of old Ontario from Essex to Dundas. Reports on these demonstrations will not be complete until after threshing but the various plots were inspected at different times during the growing season and in the majority of cases the crop was very promising.

Preacher—"Dat's as fine a goose as I evah see, Bruddah Williams. Whar did yo' git such a fine goose?"

Mose—"Well now, pahson, when yo' preach a speshul sermon, I never axes yo' whar yo' got it. I hopes yo' will show me de same consideration."—Wall Street Journal.

The curate was paying an apparently interminable visit to one of his parishioners.

The little daughter of the house went up to her mother, and, in a stage whsper, sad: "Hasn't he brought his Amen with him?"

Your Training
.... fits you for this work

TWO conditions exist in the farm equipment retail field, both highly favorable to college-trained men with commercial ability.

The first of these is the tremendous amount of actual and potential new business which is constantly being created by the change to power farming. There are already nearly a million tractors on American farms. At the present rate of growth there will be another million within a few years. And, of course, a proportionate number of new tractor drawn and tractor driven implements and machines must also pass through the dealer's hands.

The second is the necessity for dealers with technical knowledge, familiar with every phase of farming, to sell and service these new machines, so that farmers may get the greatest benefit from their investment. There is not only plenty of room for dealers with your training and ability, but all the conditions are favorable to your highest success.

Here is work in which you can use everything the agricultural college has taught you. The retail dealer should be the most competent adviser farmers meet on all questions of farm efficiency and conveniences. Your training fits you for this work, and the situation offers rewards worthy of your best efforts.

J. I. CASE COMPANY

EST 1842 CASE

CASE

BOXING AND WRESTLING

(Continued from Page 114)

able to turn its full team of regulars on at all the matches, and also by having to default a full meet on account of exams. We had one winner, however, in Keith Reynolds, who won the 175 lb. boxing medal. This year it is the intention of the league to add another club and divide the league into two groups, thus shortening the schedule for each team.

Besides winning the Davidson Cup at the Inter-Faculty meet last Spring, O.A.C. had some individuals who brought honour to the College. These men were Lorne La Pointe, '31, 135 lb. Provincial Champion; Alex. Watt, '31, 178 lb. Provincial Champion, and Mike Chepesiuk, '30, 191 lb. Heavyweight Provincial Champion, and also 176 lb. Champion of the British Empire. The coaching is in capable hands, the boxing being under Jack Harding, a boxer of some prominence, and the wrestling under George Rumple, 191 lb. Canadian Champion and representative for Canada at the Olympic games.

This year we are entering the Senior Inter-Collegiate Assault-at-Arms and shall probably encounter stiff opposition. Our wrestling team has a reputation to uphold and can do it, while our boxing team has every appearance of being better than ever, so we are in high hopes of being at the top next spring at the Inter-Collegiate meet.

Farmer Haye—"That Jones boy that used to work for you wants me to give him a job. Is he steady?"

Farmer Seede—"Well, if he was any steadier he'd be motionless."

—Wall Street Journal.

3½%

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On this point Mahoney watches will appeal to you. Since the case is the part that makes the watch attractive to the eye we have paid special attention to the design of our watches.

You will be proud of one of our watches, any time, any where no matter what the occasion.

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RIGHT OPPOSITE FIRE HALL
Our work and prices are right,
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by the
GOODYEAR WELT SYSTEM
D. CAMPBELL
51 QUEBEC ST. GUELPH.
Prompt Service

EDITORIAL

(Continued from page 100)

tourist eyes, presented the great collegiate panorama, complete with roadsters, Greek letters, touchdowns and blah. Instead of roaring enthusiastic approval of this uproarious commedy of collitch, the students, with few exceptions, pointed thumbs down and said, "Rot!" We haven't become fossilized; we still cut lectures to see a show; we haven't given up the grand old game of rugby and we don't intend to. What we have done is to realize that there is more in life than advertising.—Western U. Gazette.

"What is an easy way to learn to skate?"

"Strap a pillow on behind."

"But I always fall forward."

"Then wear a derby and let your ears act as shock absorbers."

"Did you hear of Jack stepping in front of the train?"

"No. Was he killed?"

"No. The train was backing up."

(Another case for the police.)

Who says sports are harmless? Think of al lthe unhappy children in this country made fatherless by golf.—Life.

Patient—"I say, doctor, don't you think it would be a good idea if I were to pack up and go to some place where the climate is warmer?"

Doctor — "Good heavens! Isn't that just what I'm trying to prevent?"

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We Carry a Fine Selection of Frames for Photographs

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Open Sundays Down at Corner

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Complete Banking Facilities

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A. H. Bazett, Manager.

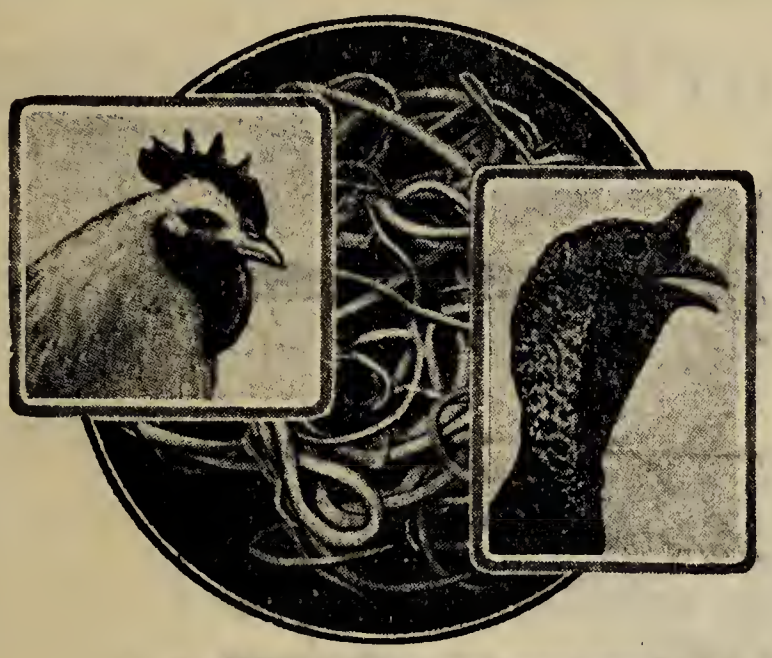
For the Future Bride

After she has made you happy with one little word, make her happy by choosing the cherished token from our special display of Engagement Rings.

$25 to $500

Savage & Co.

Leading Jewelers
GUELPH



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A safe, effective, economical anthelmintic.

For removal of roundworms in poultry, also stomach worms, hookworms and roundworms in dogs, cats, foxes, sheep, goats and swine.

Nema Worm Capsules are available in packages of 12 and 50 as follows:—

No. 190—5 cc. (80 minims) For cattle, sheep, swine, large dogs, etc.
No. 189—2½ cc. (40 minims) For medium size dogs, small hogs, lambs, kids, etc.
No. 187—1 cc. (16 minims) For adult foxes, small dogs, poultry, etc.
No. 191—0.5 cc. (8 minims) For young turkeys, chickens, foxes, etc.
No. 188—0.2 cc. (3 minims) For puppies, fox cubs, small chickens, etc.

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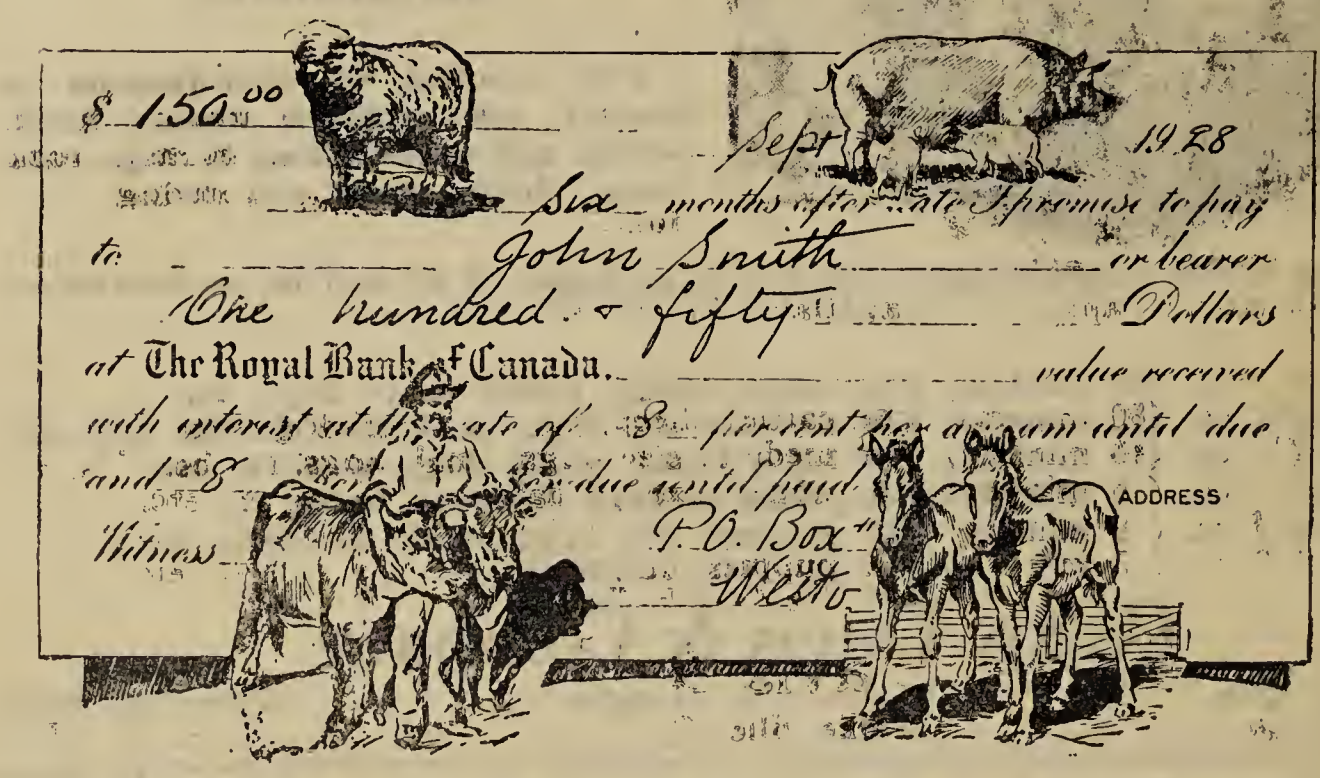

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We will notify the buyers of your stock to pay their notes at our office, and will deposit the payments to your account.

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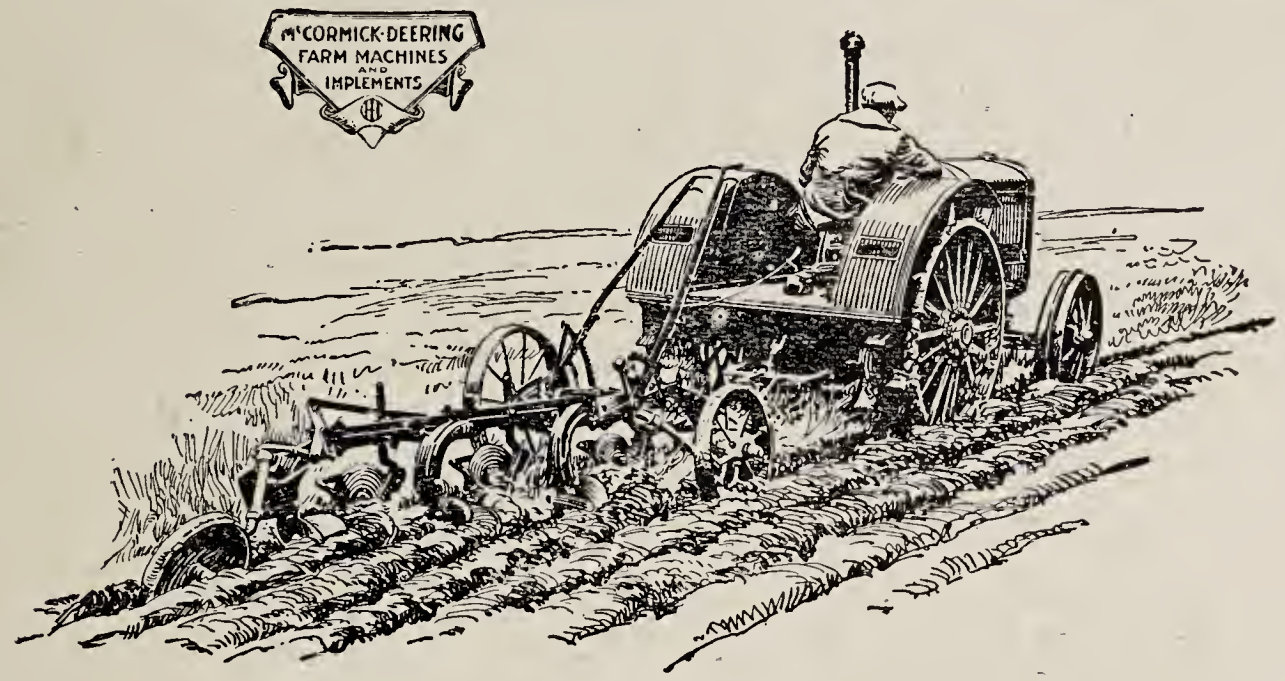
Guelph Branch - - R. H. Harvey, Manager

Control Your Profits By Controlling Your Costs



Tractor Power and Equipment First Step Toward New Success

Success comes to the farmer who grows as good a crop as anybody else, but also grows it at a lower cost.

PRICE CONTROL is a difficult proposition—it is beyond the reach of the average individual—**but your costs are largely in your own hands.** Whether they are high or low depends on how well you plan your operations and on the kind of power you employ when putting your plans into work. For example, U. S. Dept. of Agriculture figures show that 66 days of man labor are saved in a year's time, per farm, by the use of the tractor—and labor is the item that has the heaviest bearing on farm costs.

The many advantages of tractor power are most readily available in the McCormick-Deering line because of the complete range of power—in the 15-30, 10-20 and all-purpose Farmall—and in the up-to-the-the-minute tools built to operate with these tractors.

This winter resolve to take the control of your profits into your own hands. Check your power and your tools against your actual needs.

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